

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: P934378

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934378
REPORT IS A COMBINATION OF REPORTS P933693 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

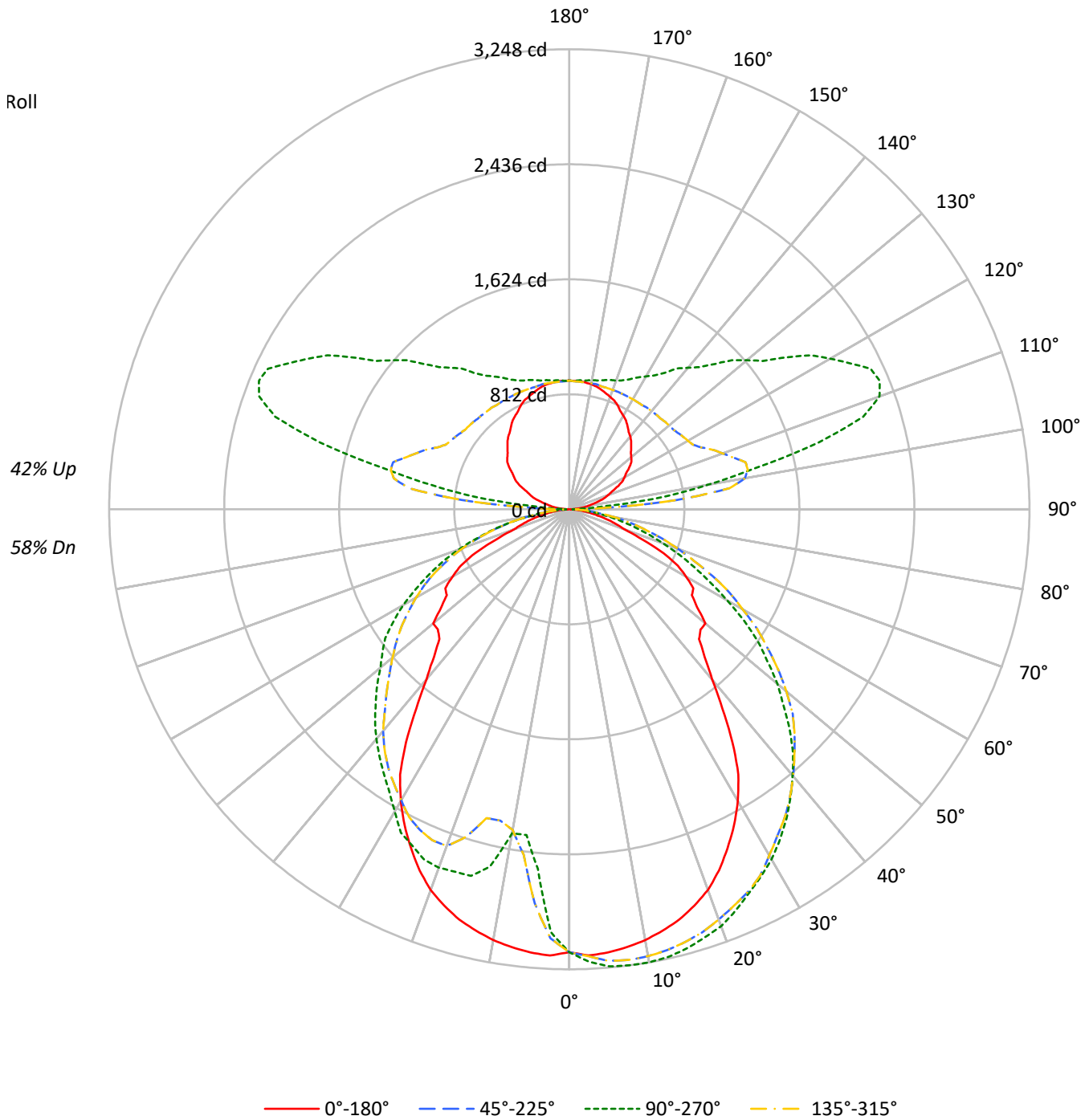
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13999.1 lumens
Efficiency: N/A
Efficacy: 128.2 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: General Diffuse

Input Watts (W): 109.2
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9671	9671	9671	9671
5°	9747	9763	9747	7676
10°	9685	9617	9685	6875
15°	9584	9408	9584	7856
20°	9387	9161	9387	7873
25°	8980	8801	8980	7706
30°	8453	8503	8453	7339
35°	7540	8125	7540	6937
40°	6286	7679	6286	6632
45°	5620	7158	5620	6283
50°	5976	6537	5976	5932
55°	5628	5868	5628	5729
60°	5808	4983	5808	5247
65°	5275	4120	5275	4605
70°	3661	3283	3661	3860
75°	3223	2427	3223	2906
80°	2616	1604	2616	1747
85°	1533	850	1533	723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8609 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	2.0
10°-20°	801.3	5.7
20°-30°	1238.7	8.8
30°-40°	1478.8	10.6
40°-50°	1487.4	10.6
50°-60°	1294.2	9.2
60°-70°	917.6	6.6
70°-80°	485.5	3.5
80°-90°	124.4	0.9
90°-100°	442.8	3.2
100°-110°	1164.2	8.3
110°-120°	1207.1	8.6
120°-130°	968.3	6.9
130°-140°	759.7	5.4
140°-150°	583.1	4.2
150°-160°	420.0	3.0
160°-170°	256.9	1.8
170°-180°	86.8	0.6
0°-30°	2322.3	16.6
0°-40°	3801.1	27.2
0°-60°	6582.8	47.0
0°-90°	8110.3	57.9
90°-120°	2814.0	20.1
90°-150°	5125.1	36.6
90°-180°	5889.0	42.1
0°-180°	13999.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3127	3127	3127	3127	3127	
5°	3142	3239	3142	2547	3142	298
15°	3000	3210	3000	2680	3000	844
25°	2642	2994	2642	2621	2642	1213
35°	2008	2671	2008	2281	2008	1243
45°	1296	2201	1296	1932	1296	1038
55°	1056	1624	1056	1586	1056	970
65°	734	979	734	1094	734	701
75°	278	464	278	556	278	292
85°	47	118	47	101	47	64
90°	6	23	6	23	6	7
95°	59	268	59	268	59	65
105°	210	1823	210	1823	210	222
115°	372	2347	372	2347	372	368
125°	518	1869	518	1869	518	460
135°	618	1450	618	1450	618	478
145°	716	1177	716	1177	716	449
155°	810	1013	810	1013	810	372
165°	874	944	874	944	874	247
175°	908	914	908	914	908	86
180°	908	908	908	908	908	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3153.3	3153.3	3171.1	3177.0	3177.0	3168.1	3159.2	3168.1	3194.7	3203.6	3200.7
5°	3141.5	3165.2	3197.7	3203.6	3209.5	3206.6	3200.7	3206.6	3236.2	3242.1	3245.0
7.5°	3117.8	3162.2	3203.6	3212.5	3221.4	3212.5	3209.5	3215.4	3245.0	3250.9	3250.9
10°	3088.3	3150.4	3197.7	3203.6	3212.5	3203.6	3203.6	3215.4	3245.0	3250.9	3253.9
12.5°	3046.8	3132.6	3177.0	3182.9	3194.7	3191.8	3188.8	3200.7	3230.2	3236.2	3236.2
15°	2999.5	3100.1	3141.5	3147.4	3168.1	3162.2	3162.2	3174.0	3206.6	3215.4	3212.5
17.5°	2934.4	3058.7	3106.0	3114.9	3129.7	3126.7	3129.7	3141.5	3171.1	3177.0	3179.9
20°	2860.5	3002.5	3058.7	3067.5	3082.3	3082.3	3082.3	3097.1	3126.7	3138.5	3138.5
22.5°	2759.9	2943.3	3002.5	3008.4	3026.1	3026.1	3032.0	3052.8	3079.4	3082.3	3082.3
25°	2641.6	2878.2	2928.5	2946.3	2964.0	2972.9	2981.8	2993.6	3002.5	2999.5	3002.5
27.5°	2517.3	2795.4	2860.5	2872.3	2896.0	2904.9	2916.7	2919.6	2922.6	2931.5	2925.6
30°	2378.2	2680.0	2777.7	2789.5	2827.9	2833.9	2822.0	2827.9	2842.7	2848.7	2854.6
32.5°	2221.5	2508.4	2691.9	2718.5	2754.0	2736.2	2733.3	2742.2	2765.8	2765.8	2771.7
35°	2008.5	2375.3	2612.0	2635.7	2662.3	2641.6	2653.4	2656.4	2671.2	2680.0	2677.1
37.5°	1774.8	2259.9	2529.1	2546.8	2567.5	2540.9	2558.7	2567.5	2579.4	2573.5	2573.5
40°	1567.7	2079.5	2431.5	2443.3	2461.1	2440.4	2458.1	2464.0	2469.9	2464.0	2461.1
42.5°	1413.9	1881.3	2327.9	2342.7	2330.9	2345.7	2351.6	2363.4	2354.6	2342.7	2342.7
45°	1295.6	1828.0	2215.5	2233.3	2215.5	2239.2	2248.1	2248.1	2221.5	2215.5	2212.6
47.5°	1257.2	1721.6	2103.1	2103.1	2094.3	2123.8	2138.6	2117.9	2091.3	2082.4	2082.4
50°	1254.2	1603.2	1949.3	1937.5	1978.9	2014.4	1999.6	1978.9	1958.2	1925.7	1925.7
52.5°	1138.8	1458.3	1751.1	1795.5	1860.6	1881.3	1857.6	1836.9	1801.4	1786.6	1774.8
55°	1056.0	1307.4	1570.7	1659.4	1727.5	1754.1	1709.7	1689.0	1635.8	1626.9	1621.0
57.5°	1038.3	1088.5	1405.0	1517.5	1600.3	1597.3	1570.7	1532.2	1487.9	1479.0	1476.0
60°	952.5	786.8	1227.6	1360.7	1446.5	1437.6	1413.9	1378.4	1337.0	1331.1	1325.2
62.5°	863.7	570.9	1026.4	1177.3	1298.6	1295.6	1274.9	1221.7	1192.1	1177.3	1165.5
65°	733.6	479.2	730.6	979.1	1153.6	1159.5	1115.2	1076.7	1044.2	1026.4	1023.5
67.5°	559.1	390.5	494.0	816.4	1014.6	1008.7	952.5	934.7	893.3	884.4	866.7
70°	414.1	260.3	343.1	662.6	878.5	863.7	819.4	798.7	760.2	739.5	727.7
72.5°	343.1	210.0	251.4	514.7	739.5	721.8	683.3	659.6	627.1	609.3	597.5
75°	278.1	221.8	192.3	381.6	600.5	588.6	553.1	529.5	502.9	479.2	482.2
77.5°	204.1	207.1	153.8	281.0	476.2	458.5	437.8	408.2	396.4	372.7	372.7
80°	153.8	162.7	115.4	192.3	343.1	343.1	325.4	304.7	284.0	272.1	272.1
82.5°	103.5	103.5	85.8	121.3	233.7	224.8	213.0	207.1	195.2	189.3	189.3
85°	47.3	59.2	53.2	74.0	127.2	133.1	133.1	127.2	124.2	118.3	121.3
87.5°	14.8	26.6	32.5	41.4	65.1	68.0	71.0	71.0	71.0	74.0	74.0
90°	6.1	10.9	15.9	17.1	26.8	39.8	46.3	41.2	30.9	23.2	23.2
92.5°	24.4	65.8	107.3	117.6	165.4	229.0	260.9	228.7	164.2	115.9	111.2
95°	58.6	134.4	210.3	229.2	407.0	644.2	762.7	680.5	516.4	393.2	379.2
97.5°	101.2	168.1	235.1	251.8	548.3	943.6	1141.3	1089.4	985.6	907.8	881.3
100°	134.1	194.8	255.5	270.7	599.7	1038.4	1257.7	1261.5	1269.1	1274.8	1243.1
102.5°	162.2	218.8	275.4	289.6	623.3	1068.2	1290.7	1356.7	1489.0	1588.2	1561.0
105°	209.7	257.6	305.6	317.6	640.7	1071.6	1287.0	1435.2	1731.6	1954.0	1939.4
107.5°	258.5	303.2	348.0	359.1	644.1	1024.0	1213.9	1420.6	1834.2	2144.3	2147.8
110°	291.5	331.8	372.2	382.3	639.1	981.7	1152.9	1384.0	1846.3	2193.0	2208.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	323.7	362.2	400.6	410.3	639.3	944.7	1097.4	1334.0	1807.0	2161.9	2185.2
115°	372.5	408.0	443.5	452.4	645.2	902.4	1031.0	1258.8	1714.6	2056.4	2088.7
117.5°	420.6	452.9	485.1	493.2	657.2	875.9	985.2	1190.9	1602.2	1910.7	1946.5
120°	448.7	479.1	509.4	517.0	666.9	867.0	967.0	1154.9	1530.7	1812.6	1847.4
122.5°	476.1	506.8	537.4	545.1	681.0	862.3	952.9	1122.1	1460.6	1714.4	1748.7
125°	518.2	546.1	574.0	581.0	700.0	858.4	937.7	1081.4	1368.9	1584.5	1616.2
127.5°	552.4	580.6	608.8	615.8	718.8	856.1	924.9	1048.3	1295.1	1480.3	1507.0
130°	570.7	601.1	631.3	638.9	732.6	857.5	920.0	1029.9	1249.7	1414.4	1439.1
132.5°	589.5	619.9	650.3	657.9	743.8	858.4	915.7	1014.1	1210.8	1358.3	1380.4
135°	617.6	645.2	672.8	679.7	756.0	857.6	908.4	990.8	1155.6	1279.1	1298.2
137.5°	646.2	673.6	701.0	707.8	774.3	862.9	907.2	976.8	1116.2	1220.6	1236.1
140°	670.0	695.2	720.4	726.7	785.4	863.7	902.9	963.0	1083.4	1173.6	1188.2
142.5°	688.3	711.6	735.0	740.8	794.8	866.9	902.9	955.7	1061.4	1140.7	1153.2
145°	716.3	736.6	757.0	762.1	807.0	866.9	896.9	940.1	1026.5	1091.3	1100.8
147.5°	744.4	764.2	784.0	788.9	824.9	872.9	896.9	930.9	998.9	1049.9	1057.8
150°	762.7	780.5	798.5	802.9	834.3	876.0	896.9	925.6	982.9	1026.0	1032.4
152.5°	781.6	795.1	808.7	812.1	840.4	878.0	896.9	921.4	970.4	1007.2	1012.0
155°	809.6	819.7	829.7	832.2	853.8	882.5	896.9	916.4	955.3	984.6	987.8
157.5°	830.4	840.2	849.8	852.3	867.2	887.0	896.9	912.0	942.3	965.1	967.4
160°	844.4	852.0	859.6	861.5	873.3	889.0	896.9	909.9	935.8	955.3	956.6
162.5°	858.4	864.1	869.8	871.2	879.8	891.1	896.9	907.8	929.7	946.2	947.3
165°	873.7	878.8	883.9	885.2	889.1	894.3	896.9	904.8	920.4	932.2	933.4
167.5°	887.7	890.1	892.5	893.1	896.4	900.7	902.9	908.0	918.4	926.1	926.6
170°	896.9	899.2	901.7	902.3	902.5	902.8	902.9	908.0	918.4	926.1	926.1
172.5°	901.7	902.2	902.8	902.9	902.9	902.9	902.9	906.9	915.1	921.2	920.7
175°	908.4	908.4	908.4	908.4	906.5	904.1	902.9	905.4	910.7	914.5	914.5
177.5°	908.4	908.4	908.4	908.4	907.0	905.1	904.2	906.2	910.3	913.3	912.7
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3206.6	3197.7	3206.6	3200.7	3203.6	3194.7	3168.1	3159.2	3168.1	3177.0	3177.0
5°	3245.0	3239.1	3245.0	3245.0	3242.1	3236.2	3206.6	3200.7	3206.6	3209.5	3203.6
7.5°	3256.9	3248.0	3256.9	3250.9	3250.9	3245.0	3215.4	3209.5	3212.5	3221.4	3212.5
10°	3256.9	3248.0	3256.9	3253.9	3250.9	3245.0	3215.4	3203.6	3203.6	3212.5	3203.6
12.5°	3242.1	3236.2	3242.1	3236.2	3236.2	3230.2	3200.7	3188.8	3191.8	3194.7	3182.9
15°	3218.4	3209.5	3218.4	3212.5	3215.4	3206.6	3174.0	3162.2	3162.2	3168.1	3147.4
17.5°	3182.9	3171.1	3182.9	3179.9	3177.0	3171.1	3141.5	3129.7	3126.7	3129.7	3114.9
20°	3141.5	3132.6	3141.5	3138.5	3138.5	3126.7	3097.1	3082.3	3082.3	3082.3	3067.5
22.5°	3076.4	3067.5	3076.4	3082.3	3082.3	3079.4	3052.8	3032.0	3026.1	3026.1	3008.4
25°	3002.5	2993.6	3002.5	3002.5	2999.5	3002.5	2993.6	2981.8	2972.9	2964.0	2946.3
27.5°	2931.5	2925.6	2931.5	2925.6	2931.5	2922.6	2919.6	2916.7	2904.9	2896.0	2872.3
30°	2860.5	2854.6	2860.5	2854.6	2848.7	2842.7	2827.9	2822.0	2833.9	2827.9	2789.5
32.5°	2771.7	2765.8	2771.7	2771.7	2765.8	2765.8	2742.2	2733.3	2736.2	2754.0	2718.5
35°	2680.0	2671.2	2680.0	2677.1	2680.0	2671.2	2656.4	2653.4	2641.6	2662.3	2635.7
37.5°	2573.5	2564.6	2573.5	2573.5	2573.5	2579.4	2567.5	2558.7	2540.9	2567.5	2546.8
40°	2464.0	2452.2	2464.0	2461.1	2464.0	2469.9	2464.0	2458.1	2440.4	2461.1	2443.3
42.5°	2339.8	2336.8	2339.8	2342.7	2342.7	2354.6	2363.4	2351.6	2345.7	2330.9	2342.7
45°	2206.7	2200.8	2206.7	2212.6	2215.5	2221.5	2248.1	2248.1	2239.2	2215.5	2233.3
47.5°	2064.7	2049.9	2064.7	2082.4	2082.4	2091.3	2117.9	2138.6	2123.8	2094.3	2103.1
50°	1913.8	1916.8	1913.8	1925.7	1925.7	1958.2	1978.9	1999.6	2014.4	1978.9	1937.5
52.5°	1765.9	1763.0	1765.9	1774.8	1786.6	1801.4	1836.9	1857.6	1881.3	1860.6	1795.5
55°	1618.0	1623.9	1618.0	1621.0	1626.9	1635.8	1689.0	1709.7	1754.1	1727.5	1659.4
57.5°	1470.1	1461.3	1470.1	1476.0	1479.0	1487.9	1532.2	1570.7	1597.3	1600.3	1517.5
60°	1298.6	1286.7	1298.6	1325.2	1331.1	1337.0	1378.4	1413.9	1437.6	1446.5	1360.7
62.5°	1147.7	1127.0	1147.7	1165.5	1177.3	1192.1	1221.7	1274.9	1295.6	1298.6	1177.3
65°	988.0	979.1	988.0	1023.5	1026.4	1044.2	1076.7	1115.2	1159.5	1153.6	979.1
67.5°	843.0	843.0	843.0	866.7	884.4	893.3	934.7	952.5	1008.7	1014.6	816.4
70°	709.9	707.0	709.9	727.7	739.5	760.2	798.7	819.4	863.7	878.5	662.6
72.5°	582.7	579.8	582.7	597.5	609.3	627.1	659.6	683.3	721.8	739.5	514.7
75°	470.3	464.4	470.3	482.2	479.2	502.9	529.5	553.1	588.6	600.5	381.6
77.5°	360.9	360.9	360.9	372.7	372.7	396.4	408.2	437.8	458.5	476.2	281.0
80°	269.2	266.2	269.2	272.1	272.1	284.0	304.7	325.4	343.1	343.1	192.3
82.5°	189.3	183.4	189.3	189.3	189.3	195.2	207.1	213.0	224.8	233.7	121.3
85°	118.3	118.3	118.3	121.3	118.3	124.2	127.2	133.1	133.1	127.2	74.0
87.5°	76.9	74.0	76.9	74.0	74.0	71.0	71.0	71.0	68.0	65.1	41.4
90°	23.2	23.2	23.2	23.2	23.2	30.9	41.2	46.3	39.8	26.8	17.1
92.5°	92.8	74.3	92.8	111.2	115.9	164.2	228.7	260.9	229.0	165.4	117.6
95°	323.4	267.6	323.4	379.2	393.2	516.4	680.5	762.7	644.2	407.0	229.2
97.5°	775.0	668.8	775.0	881.3	907.8	985.6	1089.4	1141.3	943.6	548.3	251.8
100°	1116.6	990.1	1116.6	1243.1	1274.8	1269.1	1261.5	1257.7	1038.4	599.7	270.7
102.5°	1452.7	1344.3	1452.7	1561.0	1588.2	1489.0	1356.7	1290.7	1068.2	623.3	289.6
105°	1881.2	1822.9	1881.2	1939.4	1954.0	1731.6	1435.2	1287.0	1071.6	640.7	317.6
107.5°	2161.8	2175.9	2161.8	2147.8	2144.3	1834.2	1420.6	1213.9	1024.0	644.1	359.1
110°	2268.8	2329.5	2268.8	2208.1	2193.0	1846.3	1384.0	1152.9	981.7	639.1	382.3



TEST NUMBER: P934378

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2278.4	2371.6	2278.4	2185.2	2161.9	1807.0	1334.0	1097.4	944.7	639.3	410.3
115°	2218.0	2347.3	2218.0	2088.7	2056.4	1714.6	1258.8	1031.0	902.4	645.2	452.4
117.5°	2089.8	2233.2	2089.8	1946.5	1910.7	1602.2	1190.9	985.2	875.9	657.2	493.2
120°	1986.7	2125.9	1986.7	1847.4	1812.6	1530.7	1154.9	967.0	867.0	666.9	517.0
122.5°	1886.1	2023.5	1886.1	1748.7	1714.4	1460.6	1122.1	952.9	862.3	681.0	545.1
125°	1742.7	1869.3	1742.7	1616.2	1584.5	1368.9	1081.4	937.7	858.4	700.0	581.0
127.5°	1613.7	1720.5	1613.7	1507.0	1480.3	1295.1	1048.3	924.9	856.1	718.8	615.8
130°	1537.8	1636.4	1537.8	1439.1	1414.4	1249.7	1029.9	920.0	857.5	732.6	638.9
132.5°	1468.7	1557.1	1468.7	1380.4	1358.3	1210.8	1014.1	915.7	858.4	743.8	657.9
135°	1374.3	1450.4	1374.3	1298.2	1279.1	1155.6	990.8	908.4	857.6	756.0	679.7
137.5°	1298.5	1360.8	1298.5	1236.1	1220.6	1116.2	976.8	907.2	862.9	774.3	707.8
140°	1246.4	1304.7	1246.4	1188.2	1173.6	1083.4	963.0	902.9	863.7	785.4	726.7
142.5°	1203.4	1253.5	1203.4	1153.2	1140.7	1061.4	955.7	902.9	866.9	794.8	740.8
145°	1138.7	1176.7	1138.7	1100.8	1091.3	1026.5	940.1	896.9	866.9	807.0	762.1
147.5°	1089.1	1120.6	1089.1	1057.8	1049.9	998.9	930.9	896.9	872.9	824.9	788.9
150°	1057.9	1083.4	1057.9	1032.4	1026.0	982.9	925.6	896.9	876.0	834.3	802.9
152.5°	1031.3	1050.5	1031.3	1012.0	1007.2	970.4	921.4	896.9	878.0	840.4	812.1
155°	1000.6	1013.3	1000.6	987.8	984.6	955.3	916.4	896.9	882.5	853.8	832.2
157.5°	976.2	985.2	976.2	967.4	965.1	942.3	912.0	896.9	887.0	867.2	852.3
160°	961.8	967.0	961.8	956.6	955.3	935.8	909.9	896.9	889.0	873.3	861.5
162.5°	952.3	957.2	952.3	947.3	946.2	929.7	907.8	896.9	891.1	879.8	871.2
165°	938.7	943.8	938.7	933.4	932.2	920.4	904.8	896.9	894.3	889.1	885.2
167.5°	928.8	931.0	928.8	926.6	926.1	918.4	908.0	902.9	900.7	896.4	893.1
170°	926.1	926.1	926.1	926.1	926.1	918.4	908.0	902.9	902.8	902.5	902.3
172.5°	918.9	917.0	918.9	920.7	921.2	915.1	906.9	902.9	902.9	902.9	902.9
175°	914.5	914.5	914.5	914.5	914.5	910.7	905.4	902.9	904.1	906.5	908.4
177.5°	910.6	908.4	910.6	912.7	913.3	910.3	906.2	904.2	905.1	907.0	908.4
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



TEST NUMBER: P934378

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3171.1	3153.3	3153.3	3123.7	3111.9	3103.0	3088.3	3043.9	3032.0	3020.2	3038.0
5°	3197.7	3165.2	3141.5	3088.3	3043.9	3026.1	2969.9	2863.4	2792.5	2739.2	2709.6
7.5°	3203.6	3162.2	3117.8	3035.0	2928.5	2881.2	2709.6	2514.3	2461.1	2413.7	2384.1
10°	3197.7	3150.4	3088.3	2964.0	2712.6	2629.8	2458.1	2330.9	2298.4	2289.5	2298.4
12.5°	3177.0	3132.6	3046.8	2839.8	2487.7	2431.5	2330.9	2257.0	2251.0	2265.8	2345.7
15°	3141.5	3100.1	2999.5	2674.1	2363.4	2322.0	2251.0	2224.4	2257.0	2360.5	2600.1
17.5°	3106.0	3058.7	2934.4	2511.3	2268.8	2239.2	2188.9	2242.2	2425.6	2564.6	2644.6
20°	3058.7	3002.5	2860.5	2393.0	2200.8	2174.1	2150.5	2390.1	2529.1	2579.4	2623.8
22.5°	3002.5	2943.3	2759.9	2310.2	2129.8	2109.1	2123.8	2472.9	2529.1	2564.6	2603.0
25°	2928.5	2878.2	2641.6	2245.1	2073.6	2049.9	2106.1	2464.0	2496.6	2505.4	2582.3
27.5°	2860.5	2795.4	2517.3	2186.0	2005.5	1996.6	2120.9	2425.6	2449.2	2458.1	2540.9
30°	2777.7	2680.0	2378.2	2123.8	1934.5	1931.6	2123.8	2378.2	2372.3	2396.0	2478.8
32.5°	2691.9	2508.4	2221.5	2046.9	1866.5	1863.5	2103.1	2307.2	2301.3	2333.9	2396.0
35°	2612.0	2375.3	2008.5	1958.2	1780.7	1783.7	2052.9	2224.4	2227.4	2257.0	2295.4
37.5°	2529.1	2259.9	1774.8	1860.6	1697.9	1697.9	1984.8	2147.5	2141.6	2150.5	2203.7
40°	2431.5	2079.5	1567.7	1733.4	1621.0	1612.1	1902.0	2064.7	2044.0	2041.0	2115.0
42.5°	2327.9	1881.3	1413.9	1564.8	1532.2	1520.4	1801.4	1964.1	1925.7	1934.5	2029.2
45°	2215.5	1828.0	1295.6	1322.2	1440.5	1431.7	1692.0	1848.8	1822.1	1845.8	1943.4
47.5°	2103.1	1721.6	1257.2	1097.4	1342.9	1340.0	1570.7	1736.3	1721.6	1745.2	1848.8
50°	1949.3	1603.2	1254.2	940.6	1233.5	1245.3	1425.8	1626.9	1626.9	1647.6	1757.1
52.5°	1751.1	1458.3	1138.8	851.9	1106.3	1141.8	1298.6	1532.2	1538.2	1558.9	1656.5
55°	1570.7	1307.4	1056.0	783.9	955.4	1032.3	1174.3	1434.6	1446.5	1467.2	1555.9
57.5°	1405.0	1088.5	1038.3	704.0	816.4	890.4	1064.9	1340.0	1345.9	1363.6	1449.4
60°	1227.6	786.8	952.5	618.2	695.1	751.3	964.3	1227.6	1248.3	1260.1	1334.1
62.5°	1026.4	570.9	863.7	559.1	636.0	647.8	881.5	1121.1	1147.7	1156.6	1200.9
65°	730.6	479.2	733.6	508.8	573.9	576.8	792.7	1011.6	1035.3	1050.1	1082.6
67.5°	494.0	390.5	559.1	461.4	526.5	529.5	707.0	884.4	917.0	928.8	949.5
70°	343.1	260.3	414.1	411.2	473.3	479.2	615.3	769.1	798.7	807.5	819.4
72.5°	251.4	210.0	343.1	369.8	417.1	423.0	520.6	638.9	668.5	677.4	683.3
75°	192.3	221.8	278.1	322.4	355.0	357.9	426.0	520.6	541.3	547.2	550.2
77.5°	153.8	207.1	204.1	260.3	289.9	284.0	334.3	402.3	420.0	420.0	420.0
80°	115.4	162.7	153.8	186.4	213.0	207.1	239.6	286.9	292.8	298.8	295.8
82.5°	85.8	103.5	103.5	118.3	142.0	136.1	159.7	186.4	186.4	186.4	192.3
85°	53.2	59.2	47.3	62.1	79.9	76.9	88.7	100.6	103.5	103.5	97.6
87.5°	32.5	26.6	14.8	23.7	35.5	35.5	41.4	44.4	41.4	41.4	41.4
90°	15.9	10.9	6.1	10.9	15.9	17.1	26.8	39.8	46.3	41.2	30.9
92.5°	107.3	65.8	24.4	65.8	107.3	117.6	165.4	229.0	260.9	228.7	164.2
95°	210.3	134.4	58.6	134.4	210.3	229.2	407.0	644.2	762.7	680.5	516.4
97.5°	235.1	168.1	101.2	168.1	235.1	251.8	548.3	943.6	1141.3	1089.4	985.6
100°	255.5	194.8	134.1	194.8	255.5	270.7	599.7	1038.4	1257.7	1261.5	1269.1
102.5°	275.4	218.8	162.2	218.8	275.4	289.6	623.3	1068.2	1290.7	1356.7	1489.0
105°	305.6	257.6	209.7	257.6	305.6	317.6	640.7	1071.6	1287.0	1435.2	1731.6
107.5°	348.0	303.2	258.5	303.2	348.0	359.1	644.1	1024.0	1213.9	1420.6	1834.2
110°	372.2	331.8	291.5	331.8	372.2	382.3	639.1	981.7	1152.9	1384.0	1846.3



TEST NUMBER: P934378

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	400.6	362.2	323.7	362.2	400.6	410.3	639.3	944.7	1097.4	1334.0	1807.0
115°	443.5	408.0	372.5	408.0	443.5	452.4	645.2	902.4	1031.0	1258.8	1714.6
117.5°	485.1	452.9	420.6	452.9	485.1	493.2	657.2	875.9	985.2	1190.9	1602.2
120°	509.4	479.1	448.7	479.1	509.4	517.0	666.9	867.0	967.0	1154.9	1530.7
122.5°	537.4	506.8	476.1	506.8	537.4	545.1	681.0	862.3	952.9	1122.1	1460.6
125°	574.0	546.1	518.2	546.1	574.0	581.0	700.0	858.4	937.7	1081.4	1368.9
127.5°	608.8	580.6	552.4	580.6	608.8	615.8	718.8	856.1	924.9	1048.3	1295.1
130°	631.3	601.1	570.7	601.1	631.3	638.9	732.6	857.5	920.0	1029.9	1249.7
132.5°	650.3	619.9	589.5	619.9	650.3	657.9	743.8	858.4	915.7	1014.1	1210.8
135°	672.8	645.2	617.6	645.2	672.8	679.7	756.0	857.6	908.4	990.8	1155.6
137.5°	701.0	673.6	646.2	673.6	701.0	707.8	774.3	862.9	907.2	976.8	1116.2
140°	720.4	695.2	670.0	695.2	720.4	726.7	785.4	863.7	902.9	963.0	1083.4
142.5°	735.0	711.6	688.3	711.6	735.0	740.8	794.8	866.9	902.9	955.7	1061.4
145°	757.0	736.6	716.3	736.6	757.0	762.1	807.0	866.9	896.9	940.1	1026.5
147.5°	784.0	764.2	744.4	764.2	784.0	788.9	824.9	872.9	896.9	930.9	998.9
150°	798.5	780.5	762.7	780.5	798.5	802.9	834.3	876.0	896.9	925.6	982.9
152.5°	808.7	795.1	781.6	795.1	808.7	812.1	840.4	878.0	896.9	921.4	970.4
155°	829.7	819.7	809.6	819.7	829.7	832.2	853.8	882.5	896.9	916.4	955.3
157.5°	849.8	840.2	830.4	840.2	849.8	852.3	867.2	887.0	896.9	912.0	942.3
160°	859.6	852.0	844.4	852.0	859.6	861.5	873.3	889.0	896.9	909.9	935.8
162.5°	869.8	864.1	858.4	864.1	869.8	871.2	879.8	891.1	896.9	907.8	929.7
165°	883.9	878.8	873.7	878.8	883.9	885.2	889.1	894.3	896.9	904.8	920.4
167.5°	892.5	890.1	887.7	890.1	892.5	893.1	896.4	900.7	902.9	908.0	918.4
170°	901.7	899.2	896.9	899.2	901.7	902.3	902.5	902.8	902.9	908.0	918.4
172.5°	902.8	902.2	901.7	902.2	902.8	902.9	902.9	902.9	902.9	906.9	915.1
175°	908.4	908.4	908.4	908.4	908.4	908.4	906.5	904.1	902.9	905.4	910.7
177.5°	908.4	908.4	908.4	908.4	908.4	908.4	907.0	905.1	904.2	906.2	910.3
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



TEST NUMBER: P934378

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3017.3	3008.4	3020.2	2987.7	3020.2	3008.4	3017.3	3038.0	3020.2	3032.0	3043.9
5°	2647.5	2632.7	2585.3	2546.8	2585.3	2632.7	2647.5	2709.6	2739.2	2792.5	2863.4
7.5°	2366.4	2354.6	2342.7	2319.1	2342.7	2354.6	2366.4	2384.1	2413.7	2461.1	2514.3
10°	2304.3	2307.2	2325.0	2322.0	2325.0	2307.2	2304.3	2298.4	2289.5	2298.4	2330.9
12.5°	2464.0	2490.6	2588.2	2582.3	2588.2	2490.6	2464.0	2345.7	2265.8	2251.0	2257.0
15°	2647.5	2656.4	2677.1	2680.0	2677.1	2656.4	2647.5	2600.1	2360.5	2257.0	2224.4
17.5°	2665.3	2668.2	2683.0	2683.0	2683.0	2668.2	2665.3	2644.6	2564.6	2425.6	2242.2
20°	2650.5	2656.4	2686.0	2691.9	2686.0	2656.4	2650.5	2623.8	2579.4	2529.1	2390.1
22.5°	2644.6	2656.4	2680.0	2677.1	2680.0	2656.4	2644.6	2603.0	2564.6	2529.1	2472.9
25°	2615.0	2615.0	2617.9	2620.9	2617.9	2615.0	2615.0	2582.3	2505.4	2496.6	2464.0
27.5°	2552.8	2558.7	2576.4	2573.5	2576.4	2558.7	2552.8	2540.9	2458.1	2449.2	2425.6
30°	2496.6	2490.6	2475.8	2464.0	2475.8	2490.6	2496.6	2478.8	2396.0	2372.3	2378.2
32.5°	2401.9	2387.1	2372.3	2363.4	2372.3	2387.1	2401.9	2396.0	2333.9	2301.3	2307.2
35°	2289.5	2292.4	2289.5	2280.6	2289.5	2292.4	2289.5	2295.4	2257.0	2227.4	2224.4
37.5°	2209.6	2215.5	2212.6	2200.8	2212.6	2215.5	2209.6	2203.7	2150.5	2141.6	2147.5
40°	2126.8	2129.8	2126.8	2117.9	2126.8	2129.8	2126.8	2115.0	2041.0	2044.0	2064.7
42.5°	2046.9	2044.0	2035.1	2029.2	2035.1	2044.0	2046.9	2029.2	1934.5	1925.7	1964.1
45°	1955.2	1958.2	1940.4	1931.6	1940.4	1958.2	1955.2	1943.4	1845.8	1822.1	1848.8
47.5°	1863.5	1863.5	1848.8	1839.9	1848.8	1863.5	1863.5	1848.8	1745.2	1721.6	1736.3
50°	1765.9	1763.0	1742.3	1739.3	1742.3	1763.0	1765.9	1757.1	1647.6	1626.9	1626.9
52.5°	1653.5	1653.5	1656.5	1662.4	1656.5	1653.5	1653.5	1656.5	1558.9	1538.2	1532.2
55°	1555.9	1558.9	1579.6	1585.5	1579.6	1558.9	1555.9	1555.9	1467.2	1446.5	1434.6
57.5°	1455.3	1455.3	1470.1	1470.1	1470.1	1455.3	1455.3	1449.4	1363.6	1345.9	1340.0
60°	1340.0	1345.9	1357.7	1354.8	1357.7	1345.9	1340.0	1334.1	1260.1	1248.3	1227.6
62.5°	1218.7	1224.6	1227.6	1221.7	1227.6	1224.6	1218.7	1200.9	1156.6	1147.7	1121.1
65°	1091.5	1097.4	1100.4	1094.5	1100.4	1097.4	1091.5	1082.6	1050.1	1035.3	1011.6
67.5°	961.4	958.4	955.4	967.3	955.4	958.4	961.4	949.5	928.8	917.0	884.4
70°	828.2	828.2	825.3	831.2	825.3	828.2	828.2	819.4	807.5	798.7	769.1
72.5°	686.3	683.3	695.1	686.3	695.1	683.3	686.3	683.3	677.4	668.5	638.9
75°	547.2	553.1	547.2	556.1	547.2	553.1	547.2	550.2	547.2	541.3	520.6
77.5°	417.1	423.0	417.1	417.1	417.1	423.0	417.1	420.0	420.0	420.0	402.3
80°	295.8	292.8	292.8	289.9	292.8	292.8	295.8	295.8	298.8	292.8	286.9
82.5°	189.3	186.4	186.4	192.3	186.4	186.4	189.3	192.3	186.4	186.4	186.4
85°	103.5	106.5	100.6	100.6	100.6	106.5	103.5	97.6	103.5	103.5	100.6
87.5°	38.5	35.5	35.5	35.5	35.5	35.5	38.5	41.4	41.4	41.4	44.4
90°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	30.9	41.2	46.3	39.8
92.5°	115.9	111.2	92.8	74.3	92.8	111.2	115.9	164.2	228.7	260.9	229.0
95°	393.2	379.2	323.4	267.6	323.4	379.2	393.2	516.4	680.5	762.7	644.2
97.5°	907.8	881.3	775.0	668.8	775.0	881.3	907.8	985.6	1089.4	1141.3	943.6
100°	1274.8	1243.1	1116.6	990.1	1116.6	1243.1	1274.8	1269.1	1261.5	1257.7	1038.4
102.5°	1588.2	1561.0	1452.7	1344.3	1452.7	1561.0	1588.2	1489.0	1356.7	1290.7	1068.2
105°	1954.0	1939.4	1881.2	1822.9	1881.2	1939.4	1954.0	1731.6	1435.2	1287.0	1071.6
107.5°	2144.3	2147.8	2161.8	2175.9	2161.8	2147.8	2144.3	1834.2	1420.6	1213.9	1024.0
110°	2193.0	2208.1	2268.8	2329.5	2268.8	2208.1	2193.0	1846.3	1384.0	1152.9	981.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2161.9	2185.2	2278.4	2371.6	2278.4	2185.2	2161.9	1807.0	1334.0	1097.4	944.7
115°	2056.4	2088.7	2218.0	2347.3	2218.0	2088.7	2056.4	1714.6	1258.8	1031.0	902.4
117.5°	1910.7	1946.5	2089.8	2233.2	2089.8	1946.5	1910.7	1602.2	1190.9	985.2	875.9
120°	1812.6	1847.4	1986.7	2125.9	1986.7	1847.4	1812.6	1530.7	1154.9	967.0	867.0
122.5°	1714.4	1748.7	1886.1	2023.5	1886.1	1748.7	1714.4	1460.6	1122.1	952.9	862.3
125°	1584.5	1616.2	1742.7	1869.3	1742.7	1616.2	1584.5	1368.9	1081.4	937.7	858.4
127.5°	1480.3	1507.0	1613.7	1720.5	1613.7	1507.0	1480.3	1295.1	1048.3	924.9	856.1
130°	1414.4	1439.1	1537.8	1636.4	1537.8	1439.1	1414.4	1249.7	1029.9	920.0	857.5
132.5°	1358.3	1380.4	1468.7	1557.1	1468.7	1380.4	1358.3	1210.8	1014.1	915.7	858.4
135°	1279.1	1298.2	1374.3	1450.4	1374.3	1298.2	1279.1	1155.6	990.8	908.4	857.6
137.5°	1220.6	1236.1	1298.5	1360.8	1298.5	1236.1	1220.6	1116.2	976.8	907.2	862.9
140°	1173.6	1188.2	1246.4	1304.7	1246.4	1188.2	1173.6	1083.4	963.0	902.9	863.7
142.5°	1140.7	1153.2	1203.4	1253.5	1203.4	1153.2	1140.7	1061.4	955.7	902.9	866.9
145°	1091.3	1100.8	1138.7	1176.7	1138.7	1100.8	1091.3	1026.5	940.1	896.9	866.9
147.5°	1049.9	1057.8	1089.1	1120.6	1089.1	1057.8	1049.9	998.9	930.9	896.9	872.9
150°	1026.0	1032.4	1057.9	1083.4	1057.9	1032.4	1026.0	982.9	925.6	896.9	876.0
152.5°	1007.2	1012.0	1031.3	1050.5	1031.3	1012.0	1007.2	970.4	921.4	896.9	878.0
155°	984.6	987.8	1000.6	1013.3	1000.6	987.8	984.6	955.3	916.4	896.9	882.5
157.5°	965.1	967.4	976.2	985.2	976.2	967.4	965.1	942.3	912.0	896.9	887.0
160°	955.3	956.6	961.8	967.0	961.8	956.6	955.3	935.8	909.9	896.9	889.0
162.5°	946.2	947.3	952.3	957.2	952.3	947.3	946.2	929.7	907.8	896.9	891.1
165°	932.2	933.4	938.7	943.8	938.7	933.4	932.2	920.4	904.8	896.9	894.3
167.5°	926.1	926.6	928.8	931.0	928.8	926.6	926.1	918.4	908.0	902.9	900.7
170°	926.1	926.1	926.1	926.1	926.1	926.1	926.1	918.4	908.0	902.9	902.8
172.5°	921.2	920.7	918.9	917.0	918.9	920.7	921.2	915.1	906.9	902.9	902.9
175°	914.5	914.5	914.5	914.5	914.5	914.5	914.5	910.7	905.4	902.9	904.1
177.5°	913.3	912.7	910.6	908.4	910.6	912.7	913.3	910.3	906.2	904.2	905.1
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3088.3	3103.0	3111.9	3123.7	3153.3
5°	2969.9	3026.1	3043.9	3088.3	3141.5
7.5°	2709.6	2881.2	2928.5	3035.0	3117.8
10°	2458.1	2629.8	2712.6	2964.0	3088.3
12.5°	2330.9	2431.5	2487.7	2839.8	3046.8
15°	2251.0	2322.0	2363.4	2674.1	2999.5
17.5°	2188.9	2239.2	2268.8	2511.3	2934.4
20°	2150.5	2174.1	2200.8	2393.0	2860.5
22.5°	2123.8	2109.1	2129.8	2310.2	2759.9
25°	2106.1	2049.9	2073.6	2245.1	2641.6
27.5°	2120.9	1996.6	2005.5	2186.0	2517.3
30°	2123.8	1931.6	1934.5	2123.8	2378.2
32.5°	2103.1	1863.5	1866.5	2046.9	2221.5
35°	2052.9	1783.7	1780.7	1958.2	2008.5
37.5°	1984.8	1697.9	1697.9	1860.6	1774.8
40°	1902.0	1612.1	1621.0	1733.4	1567.7
42.5°	1801.4	1520.4	1532.2	1564.8	1413.9
45°	1692.0	1431.7	1440.5	1322.2	1295.6
47.5°	1570.7	1340.0	1342.9	1097.4	1257.2
50°	1425.8	1245.3	1233.5	940.6	1254.2
52.5°	1298.6	1141.8	1106.3	851.9	1138.8
55°	1174.3	1032.3	955.4	783.9	1056.0
57.5°	1064.9	890.4	816.4	704.0	1038.3
60°	964.3	751.3	695.1	618.2	952.5
62.5°	881.5	647.8	636.0	559.1	863.7
65°	792.7	576.8	573.9	508.8	733.6
67.5°	707.0	529.5	526.5	461.4	559.1
70°	615.3	479.2	473.3	411.2	414.1
72.5°	520.6	423.0	417.1	369.8	343.1
75°	426.0	357.9	355.0	322.4	278.1
77.5°	334.3	284.0	289.9	260.3	204.1
80°	239.6	207.1	213.0	186.4	153.8
82.5°	159.7	136.1	142.0	118.3	103.5
85°	88.7	76.9	79.9	62.1	47.3
87.5°	41.4	35.5	35.5	23.7	14.8
90°	26.8	17.1	15.9	10.9	6.1
92.5°	165.4	117.6	107.3	65.8	24.4
95°	407.0	229.2	210.3	134.4	58.6
97.5°	548.3	251.8	235.1	168.1	101.2
100°	599.7	270.7	255.5	194.8	134.1
102.5°	623.3	289.6	275.4	218.8	162.2
105°	640.7	317.6	305.6	257.6	209.7
107.5°	644.1	359.1	348.0	303.2	258.5
110°	639.1	382.3	372.2	331.8	291.5



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CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	639.3	410.3	400.6	362.2	323.7
115°	645.2	452.4	443.5	408.0	372.5
117.5°	657.2	493.2	485.1	452.9	420.6
120°	666.9	517.0	509.4	479.1	448.7
122.5°	681.0	545.1	537.4	506.8	476.1
125°	700.0	581.0	574.0	546.1	518.2
127.5°	718.8	615.8	608.8	580.6	552.4
130°	732.6	638.9	631.3	601.1	570.7
132.5°	743.8	657.9	650.3	619.9	589.5
135°	756.0	679.7	672.8	645.2	617.6
137.5°	774.3	707.8	701.0	673.6	646.2
140°	785.4	726.7	720.4	695.2	670.0
142.5°	794.8	740.8	735.0	711.6	688.3
145°	807.0	762.1	757.0	736.6	716.3
147.5°	824.9	788.9	784.0	764.2	744.4
150°	834.3	802.9	798.5	780.5	762.7
152.5°	840.4	812.1	808.7	795.1	781.6
155°	853.8	832.2	829.7	819.7	809.6
157.5°	867.2	852.3	849.8	840.2	830.4
160°	873.3	861.5	859.6	852.0	844.4
162.5°	879.8	871.2	869.8	864.1	858.4
165°	889.1	885.2	883.9	878.8	873.7
167.5°	896.4	893.1	892.5	890.1	887.7
170°	902.5	902.3	901.7	899.2	896.9
172.5°	902.9	902.9	902.8	902.2	901.7
175°	906.5	908.4	908.4	908.4	908.4
177.5°	907.0	908.4	908.4	908.4	908.4
180°	908.4	908.4	908.4	908.4	908.4



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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	13.40	14.33	14.28	15.24	16.39	16.25	17.19	17.13	18.09	19.25
	3H	13.88	14.72	14.78	15.64	16.82	17.61	18.45	18.50	19.36	20.54
	4H	14.07	14.87	14.99	15.79	16.98	18.06	18.85	18.97	19.77	20.96
	6H	14.20	14.93	15.12	15.86	17.06	18.35	19.09	19.28	20.01	21.21
	8H	14.20	14.90	15.13	15.84	17.04	18.43	19.13	19.37	20.08	21.27
	12H	14.17	14.84	15.11	15.78	17.00	18.48	19.14	19.42	20.08	21.31
4H	2H	14.44	15.24	15.36	16.16	17.35	16.67	17.46	17.59	18.38	19.57
	3H	15.48	16.14	16.41	17.09	18.30	18.19	18.85	19.12	19.80	21.00
	4H	15.76	16.36	16.70	17.31	18.54	18.72	19.33	19.66	20.27	21.50
	6H	15.89	16.41	16.84	17.38	18.61	19.10	19.62	20.05	20.59	21.82
	8H	15.89	16.38	16.85	17.35	18.59	19.21	19.69	20.16	20.66	21.90
	12H	15.87	16.30	16.84	17.29	18.53	19.27	19.71	20.25	20.69	21.94
8H	4H	16.22	16.71	17.18	17.67	18.91	18.85	19.34	19.81	20.30	21.54
	6H	16.49	16.89	17.47	17.89	19.14	19.30	19.70	20.28	20.71	21.95
	8H	16.53	16.88	17.52	17.88	19.14	19.45	19.81	20.44	20.80	22.06
	12H	16.52	16.83	17.51	17.82	19.12	19.56	19.87	20.55	20.86	22.17
12H	4H	16.23	16.67	17.21	17.65	18.90	18.82	19.26	19.79	20.24	21.49
	6H	16.55	16.90	17.54	17.90	19.16	19.29	19.65	20.28	20.65	21.90
	8H	16.62	16.93	17.61	17.92	19.23	19.46	19.78	20.46	20.76	22.07