

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: P934480

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934480
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-B2750-1D-UNV-STD-W-12-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

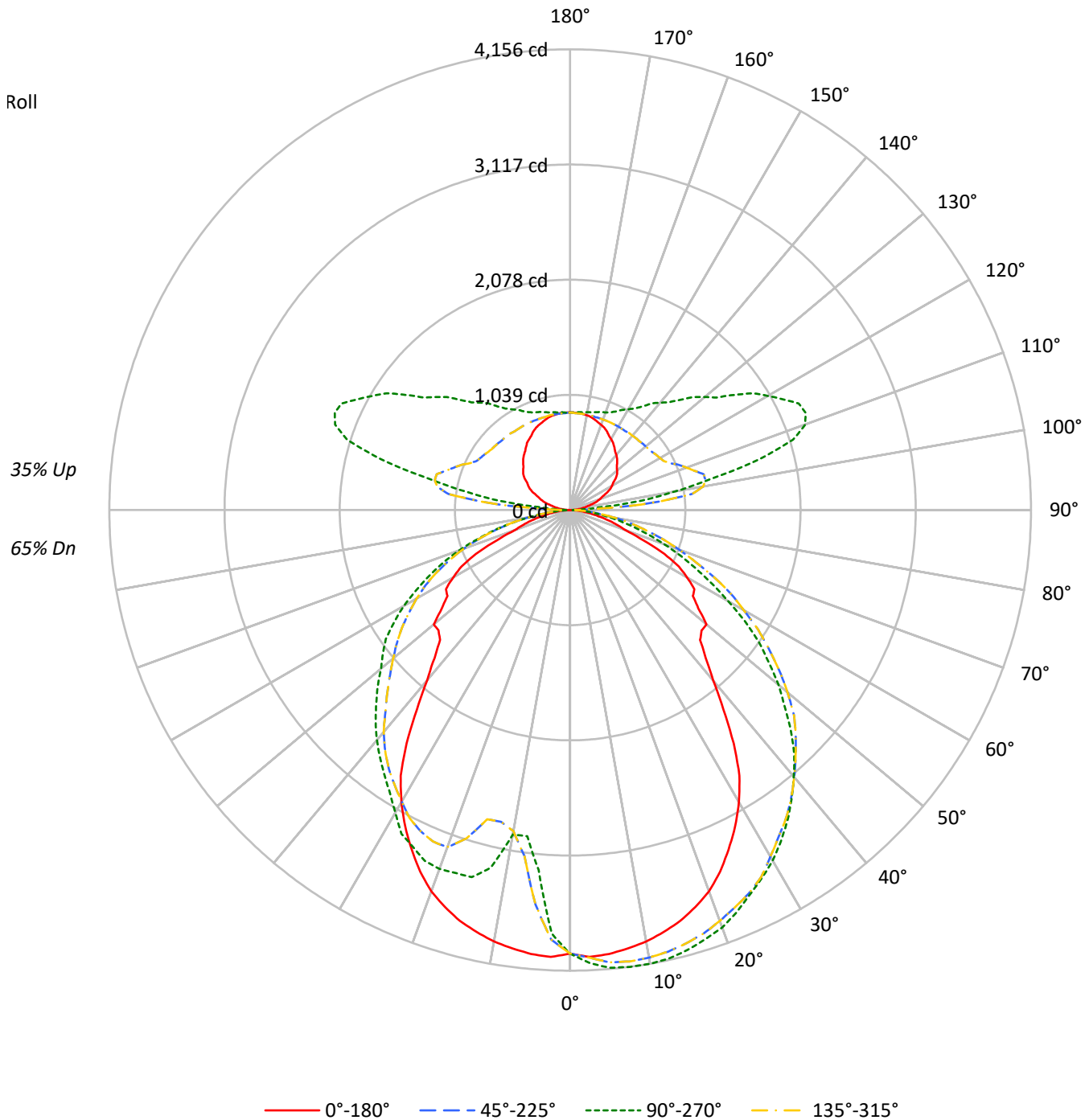
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16081.2 lumens
Efficiency: N/A
Efficacy: 118.6 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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CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12376	12376	12376	12376
5°	12473	12493	12473	9823
10°	12394	12306	12394	8798
15°	12264	12039	12264	10053
20°	12012	11724	12012	10074
25°	11492	11263	11492	9860
30°	10818	10880	10818	9392
35°	9649	10396	9649	8877
40°	8045	9827	8045	8488
45°	7193	9160	7193	8040
50°	7647	8365	7647	7591
55°	7201	7509	7201	7331
60°	7433	6377	7433	6715
65°	6750	5272	6750	5893
70°	4685	4201	4685	4940
75°	4124	3106	4124	3719
80°	3347	2053	3347	2235
85°	1960	1087	1960	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11016 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	2.2
10°-20°	1025.5	6.4
20°-30°	1585.2	9.9
30°-40°	1892.4	11.8
40°-50°	1903.5	11.8
50°-60°	1656.2	10.3
60°-70°	1174.3	7.3
70°-80°	621.3	3.9
80°-90°	158.1	1.0
90°-100°	428.9	2.7
100°-110°	1127.5	7.0
110°-120°	1169.1	7.3
120°-130°	937.8	5.8
130°-140°	735.9	4.6
140°-150°	564.8	3.5
150°-160°	406.7	2.5
160°-170°	248.9	1.5
170°-180°	84.1	0.5
0°-30°	2971.8	18.5
0°-40°	4864.2	30.2
0°-60°	8423.9	52.4
0°-90°	10377.5	64.5
90°-120°	2725.5	16.9
90°-150°	4964.0	30.9
90°-180°	5704.0	35.5
0°-180°	16081.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4001	4001	4001	4001	4001	
5°	4020	4145	4020	3259	4020	381
15°	3838	4107	3838	3430	3838	1080
25°	3380	3831	3380	3354	3380	1552
35°	2570	3418	2570	2918	2570	1590
45°	1658	2816	1658	2472	1658	1328
55°	1351	2078	1351	2029	1351	1242
65°	939	1253	939	1401	939	897
75°	356	594	356	712	356	374
85°	60	151	60	129	60	82
90°	6	22	6	22	6	7
95°	57	259	57	259	57	63
105°	203	1766	203	1766	203	215
115°	361	2274	361	2274	361	356
125°	502	1810	502	1810	502	446
135°	598	1405	598	1405	598	463
145°	694	1140	694	1140	694	435
155°	784	982	784	982	784	360
165°	846	914	846	914	846	239
175°	880	886	880	886	880	84
180°	880	880	880	880	880	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	4035.2	4035.2	4057.9	4065.4	4065.4	4054.1	4042.7	4054.1	4088.2	4099.5	4095.7
5°	4020.1	4050.3	4092.0	4099.5	4107.1	4103.3	4095.7	4103.3	4141.2	4148.7	4152.5
7.5°	3989.7	4046.5	4099.5	4110.9	4122.3	4110.9	4107.1	4114.7	4152.5	4160.1	4160.1
10°	3951.9	4031.4	4092.0	4099.5	4110.9	4099.5	4099.5	4114.7	4152.5	4160.1	4163.9
12.5°	3898.9	4008.7	4065.4	4073.1	4088.2	4084.3	4080.6	4095.7	4133.6	4141.2	4141.2
15°	3838.3	3967.1	4020.1	4027.6	4054.1	4046.5	4046.5	4061.7	4103.3	4114.7	4110.9
17.5°	3755.1	3914.1	3974.6	3986.0	4004.9	4001.1	4004.9	4020.1	4057.9	4065.4	4069.3
20°	3660.4	3842.2	3914.1	3925.4	3944.3	3944.3	3944.3	3963.2	4001.1	4016.3	4016.3
22.5°	3531.7	3766.4	3842.2	3849.7	3872.4	3872.4	3880.0	3906.4	3940.5	3944.3	3944.3
25°	3380.3	3683.1	3747.5	3770.2	3792.9	3804.2	3815.6	3830.8	3842.2	3838.3	3842.2
27.5°	3221.3	3577.1	3660.4	3675.6	3705.9	3717.2	3732.3	3736.2	3739.9	3751.2	3743.7
30°	3043.4	3429.5	3554.4	3569.6	3618.8	3626.3	3611.2	3618.8	3637.7	3645.3	3652.9
32.5°	2842.7	3209.9	3444.7	3478.7	3524.1	3501.4	3497.7	3509.1	3539.3	3539.3	3546.9
35°	2570.3	3039.7	3342.5	3372.8	3406.8	3380.3	3395.4	3399.2	3418.1	3429.5	3425.8
37.5°	2271.2	2892.0	3236.5	3259.2	3285.7	3251.6	3274.3	3285.7	3300.9	3293.2	3293.2
40°	2006.3	2661.1	3111.6	3126.7	3149.4	3122.9	3145.6	3153.2	3160.8	3153.2	3149.4
42.5°	1809.4	2407.5	2979.0	2998.0	2982.8	3001.8	3009.3	3024.5	3013.1	2998.0	2998.0
45°	1658.0	2339.4	2835.2	2857.9	2835.2	2865.5	2876.8	2876.8	2842.7	2835.2	2831.5
47.5°	1608.8	2203.1	2691.4	2691.4	2680.0	2717.8	2736.8	2710.3	2676.2	2664.9	2664.9
50°	1605.0	2051.6	2494.6	2479.4	2532.4	2577.8	2558.9	2532.4	2505.9	2464.3	2464.3
52.5°	1457.3	1866.2	2240.9	2297.7	2381.0	2407.5	2377.2	2350.7	2305.3	2286.4	2271.2
55°	1351.3	1673.2	2010.0	2123.5	2210.6	2244.7	2187.9	2161.5	2093.3	2081.9	2074.4
57.5°	1328.7	1393.0	1798.1	1941.9	2047.9	2044.1	2010.0	1960.8	1904.0	1892.7	1888.9
60°	1218.9	1006.9	1570.9	1741.3	1851.1	1839.7	1809.4	1764.0	1711.0	1703.4	1695.8
62.5°	1105.3	730.6	1313.5	1506.6	1661.8	1658.0	1631.5	1563.3	1525.5	1506.6	1491.4
65°	938.8	613.2	934.9	1253.0	1476.2	1483.9	1427.1	1377.9	1336.2	1313.5	1309.7
67.5°	715.4	499.7	632.1	1044.8	1298.4	1290.8	1218.9	1196.1	1143.1	1131.8	1109.1
70°	529.9	333.1	439.1	847.9	1124.2	1105.3	1048.5	1022.0	972.9	946.3	931.2
72.5°	439.1	268.7	321.7	658.7	946.3	923.6	874.4	844.1	802.5	779.8	764.7
75°	355.8	283.9	246.0	488.3	768.4	753.3	707.8	677.6	643.5	613.2	617.0
77.5°	261.2	265.0	196.8	359.7	609.5	586.8	560.2	522.4	507.2	476.9	476.9
80°	196.8	208.2	147.6	246.0	439.1	439.1	416.4	389.9	363.4	348.3	348.3
82.5°	132.5	132.5	109.7	155.2	299.0	287.6	272.6	265.0	249.8	242.3	242.3
85°	60.5	75.7	68.1	94.6	162.7	170.4	170.4	162.7	159.0	151.4	155.2
87.5°	18.9	34.1	41.6	53.0	83.3	87.1	90.8	90.8	90.8	94.6	94.6
90°	5.9	10.6	15.4	16.5	26.0	38.6	44.9	39.9	29.9	22.4	22.4
92.5°	23.6	63.7	103.9	113.9	160.2	221.8	252.7	221.5	159.0	112.2	107.7
95°	56.7	130.2	203.7	222.0	394.2	623.9	738.7	659.1	500.1	380.9	367.3
97.5°	98.0	162.8	227.7	243.9	531.1	913.9	1105.4	1055.2	954.6	879.3	853.6
100°	129.9	188.7	247.4	262.1	580.8	1005.7	1218.2	1221.8	1229.2	1234.7	1204.1
102.5°	157.1	211.9	266.7	280.5	603.7	1034.6	1250.1	1314.1	1442.1	1538.2	1512.0
105°	203.1	249.5	296.0	307.6	620.6	1037.9	1246.6	1390.1	1677.2	1892.5	1878.4
107.5°	250.4	293.7	337.0	347.8	623.8	991.8	1175.7	1376.0	1776.5	2076.8	2080.3
110°	282.3	321.4	360.5	370.3	619.0	950.8	1116.7	1340.5	1788.2	2124.0	2138.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	313.5	350.8	388.0	397.4	619.2	915.0	1062.9	1292.0	1750.2	2093.9	2116.5
115°	360.8	395.2	429.6	438.2	625.0	874.0	998.5	1219.2	1660.6	1991.7	2023.1
117.5°	407.4	438.6	469.9	477.7	636.5	848.3	954.2	1153.4	1551.8	1850.6	1885.3
120°	434.6	464.0	493.4	500.7	646.0	839.7	936.6	1118.6	1482.5	1755.6	1789.3
122.5°	461.2	490.9	520.5	527.9	659.6	835.1	922.9	1086.8	1414.6	1660.5	1693.7
125°	501.9	529.0	556.0	562.8	678.0	831.4	908.2	1047.4	1325.8	1534.7	1565.3
127.5°	535.0	562.3	589.6	596.4	696.2	829.2	895.8	1015.4	1254.4	1433.7	1459.6
130°	552.8	582.2	611.5	618.8	709.6	830.6	891.1	997.5	1210.4	1369.9	1393.8
132.5°	571.0	600.4	629.8	637.2	720.5	831.4	886.9	982.2	1172.7	1315.6	1337.0
135°	598.2	625.0	651.7	658.4	732.2	830.7	879.8	959.7	1119.3	1238.9	1257.4
137.5°	625.9	652.5	679.0	685.6	750.0	835.8	878.7	946.1	1081.1	1182.2	1197.3
140°	648.9	673.4	697.7	703.8	760.8	836.6	874.5	932.7	1049.4	1136.7	1150.9
142.5°	666.7	689.2	711.9	717.5	769.8	839.6	874.5	925.7	1028.1	1104.8	1117.0
145°	693.8	713.5	733.2	738.1	781.7	839.6	868.7	910.5	994.3	1057.0	1066.2
147.5°	721.0	740.1	759.3	764.1	799.0	845.5	868.7	901.6	967.5	1016.9	1024.5
150°	738.7	756.0	773.4	777.7	808.0	848.4	868.7	896.5	952.0	993.8	1000.0
152.5°	757.0	770.1	783.3	786.5	813.9	850.4	868.7	892.4	939.9	975.5	980.2
155°	784.2	793.9	803.6	806.0	826.9	854.7	868.7	887.6	925.3	953.7	956.7
157.5°	804.3	813.8	823.1	825.5	839.9	859.1	868.7	883.4	912.7	934.8	937.0
160°	817.9	825.2	832.6	834.4	845.8	861.0	868.7	881.3	906.4	925.3	926.5
162.5°	831.4	837.0	842.5	843.8	852.1	863.1	868.7	879.3	900.5	916.4	917.6
165°	846.2	851.2	856.2	857.4	861.1	866.2	868.7	876.3	891.5	902.9	904.1
167.5°	859.8	862.1	864.5	865.0	868.2	872.4	874.5	879.5	889.5	896.9	897.5
170°	868.7	871.0	873.3	873.9	874.1	874.4	874.5	879.5	889.5	896.9	896.9
172.5°	873.3	873.8	874.4	874.5	874.5	874.5	874.5	878.4	886.3	892.3	891.8
175°	879.8	879.8	879.8	879.8	878.0	875.6	874.5	877.0	882.0	885.8	885.8
177.5°	879.8	879.8	879.8	879.8	878.5	876.7	875.7	877.7	881.7	884.6	884.0
180°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	4103.3	4092.0	4103.3	4095.7	4099.5	4088.2	4054.1	4042.7	4054.1	4065.4	4065.4
5°	4152.5	4145.0	4152.5	4152.5	4148.7	4141.2	4103.3	4095.7	4103.3	4107.1	4099.5
7.5°	4167.6	4156.4	4167.6	4160.1	4160.1	4152.5	4114.7	4107.1	4110.9	4122.3	4110.9
10°	4167.6	4156.4	4167.6	4163.9	4160.1	4152.5	4114.7	4099.5	4099.5	4110.9	4099.5
12.5°	4148.7	4141.2	4148.7	4141.2	4141.2	4133.6	4095.7	4080.6	4084.3	4088.2	4073.1
15°	4118.4	4107.1	4118.4	4110.9	4114.7	4103.3	4061.7	4046.5	4046.5	4054.1	4027.6
17.5°	4073.1	4057.9	4073.1	4069.3	4065.4	4057.9	4020.1	4004.9	4001.1	4004.9	3986.0
20°	4020.1	4008.7	4020.1	4016.3	4016.3	4001.1	3963.2	3944.3	3944.3	3944.3	3925.4
22.5°	3936.8	3925.4	3936.8	3944.3	3944.3	3940.5	3906.4	3880.0	3872.4	3872.4	3849.7
25°	3842.2	3830.8	3842.2	3842.2	3838.3	3842.2	3830.8	3815.6	3804.2	3792.9	3770.2
27.5°	3751.2	3743.7	3751.2	3743.7	3751.2	3739.9	3736.2	3732.3	3717.2	3705.9	3675.6
30°	3660.4	3652.9	3660.4	3652.9	3645.3	3637.7	3618.8	3611.2	3626.3	3618.8	3569.6
32.5°	3546.9	3539.3	3546.9	3546.9	3539.3	3539.3	3509.1	3497.7	3501.4	3524.1	3478.7
35°	3429.5	3418.1	3429.5	3425.8	3429.5	3418.1	3399.2	3395.4	3380.3	3406.8	3372.8
37.5°	3293.2	3281.9	3293.2	3293.2	3293.2	3300.9	3285.7	3274.3	3251.6	3285.7	3259.2
40°	3153.2	3138.0	3153.2	3149.4	3153.2	3160.8	3153.2	3145.6	3122.9	3149.4	3126.7
42.5°	2994.2	2990.4	2994.2	2998.0	2998.0	3013.1	3024.5	3009.3	3001.8	2982.8	2998.0
45°	2823.8	2816.3	2823.8	2831.5	2835.2	2842.7	2876.8	2876.8	2865.5	2835.2	2857.9
47.5°	2642.2	2623.3	2642.2	2664.9	2664.9	2676.2	2710.3	2736.8	2717.8	2680.0	2691.4
50°	2449.1	2452.9	2449.1	2464.3	2464.3	2505.9	2532.4	2558.9	2577.8	2532.4	2479.4
52.5°	2259.8	2256.1	2259.8	2271.2	2286.4	2305.3	2350.7	2377.2	2407.5	2381.0	2297.7
55°	2070.5	2078.2	2070.5	2074.4	2081.9	2093.3	2161.5	2187.9	2244.7	2210.6	2123.5
57.5°	1881.4	1870.0	1881.4	1888.9	1892.7	1904.0	1960.8	2010.0	2044.1	2047.9	1941.9
60°	1661.8	1646.6	1661.8	1695.8	1703.4	1711.0	1764.0	1809.4	1839.7	1851.1	1741.3
62.5°	1468.7	1442.2	1468.7	1491.4	1506.6	1525.5	1563.3	1631.5	1658.0	1661.8	1506.6
65°	1264.3	1253.0	1264.3	1309.7	1313.5	1336.2	1377.9	1427.1	1483.9	1476.2	1253.0
67.5°	1078.9	1078.9	1078.9	1109.1	1131.8	1143.1	1196.1	1218.9	1290.8	1298.4	1044.8
70°	908.5	904.7	908.5	931.2	946.3	972.9	1022.0	1048.5	1105.3	1124.2	847.9
72.5°	745.8	741.9	745.8	764.7	779.8	802.5	844.1	874.4	923.6	946.3	658.7
75°	601.8	594.3	601.8	617.0	613.2	643.5	677.6	707.8	753.3	768.4	488.3
77.5°	461.8	461.8	461.8	476.9	476.9	507.2	522.4	560.2	586.8	609.5	359.7
80°	344.5	340.6	344.5	348.3	348.3	363.4	389.9	416.4	439.1	439.1	246.0
82.5°	242.3	234.6	242.3	242.3	242.3	249.8	265.0	272.6	287.6	299.0	155.2
85°	151.4	151.4	151.4	155.2	151.4	159.0	162.7	170.4	170.4	162.7	94.6
87.5°	98.5	94.6	98.5	94.6	94.6	90.8	90.8	90.8	87.1	83.3	53.0
90°	22.4	22.4	22.4	22.4	22.4	29.9	39.9	44.9	38.6	26.0	16.5
92.5°	89.9	72.0	89.9	107.7	112.2	159.0	221.5	252.7	221.8	160.2	113.9
95°	313.2	259.2	313.2	367.3	380.9	500.1	659.1	738.7	623.9	394.2	222.0
97.5°	750.6	647.8	750.6	853.6	879.3	954.6	1055.2	1105.4	913.9	531.1	243.9
100°	1081.5	959.0	1081.5	1204.1	1234.7	1229.2	1221.8	1218.2	1005.7	580.8	262.1
102.5°	1407.0	1302.0	1407.0	1512.0	1538.2	1442.1	1314.1	1250.1	1034.6	603.7	280.5
105°	1822.0	1765.6	1822.0	1878.4	1892.5	1677.2	1390.1	1246.6	1037.9	620.6	307.6
107.5°	2093.8	2107.5	2093.8	2080.3	2076.8	1776.5	1376.0	1175.7	991.8	623.8	347.8
110°	2197.5	2256.3	2197.5	2138.7	2124.0	1788.2	1340.5	1116.7	950.8	619.0	370.3



TEST NUMBER: P934480

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2206.8	2297.1	2206.8	2116.5	2093.9	1750.2	1292.0	1062.9	915.0	619.2	397.4
115°	2148.3	2273.5	2148.3	2023.1	1991.7	1660.6	1219.2	998.5	874.0	625.0	438.2
117.5°	2024.1	2163.0	2024.1	1885.3	1850.6	1551.8	1153.4	954.2	848.3	636.5	477.7
120°	1924.2	2059.1	1924.2	1789.3	1755.6	1482.5	1118.6	936.6	839.7	646.0	500.7
122.5°	1826.8	1959.9	1826.8	1693.7	1660.5	1414.6	1086.8	922.9	835.1	659.6	527.9
125°	1687.9	1810.5	1687.9	1565.3	1534.7	1325.8	1047.4	908.2	831.4	678.0	562.8
127.5°	1563.0	1666.4	1563.0	1459.6	1433.7	1254.4	1015.4	895.8	829.2	696.2	596.4
130°	1489.4	1584.9	1489.4	1393.8	1369.9	1210.4	997.5	891.1	830.6	709.6	618.8
132.5°	1422.6	1508.1	1422.6	1337.0	1315.6	1172.7	982.2	886.9	831.4	720.5	637.2
135°	1331.1	1404.8	1331.1	1257.4	1238.9	1119.3	959.7	879.8	830.7	732.2	658.4
137.5°	1257.6	1318.0	1257.6	1197.3	1182.2	1081.1	946.1	878.7	835.8	750.0	685.6
140°	1207.2	1263.7	1207.2	1150.9	1136.7	1049.4	932.7	874.5	836.6	760.8	703.8
142.5°	1165.6	1214.1	1165.6	1117.0	1104.8	1028.1	925.7	874.5	839.6	769.8	717.5
145°	1102.9	1139.7	1102.9	1066.2	1057.0	994.3	910.5	868.7	839.6	781.7	738.1
147.5°	1054.9	1085.4	1054.9	1024.5	1016.9	967.5	901.6	868.7	845.5	799.0	764.1
150°	1024.6	1049.4	1024.6	1000.0	993.8	952.0	896.5	868.7	848.4	808.0	777.7
152.5°	998.8	1017.5	998.8	980.2	975.5	939.9	892.4	868.7	850.4	813.9	786.5
155°	969.1	981.5	969.1	956.7	953.7	925.3	887.6	868.7	854.7	826.9	806.0
157.5°	945.5	954.2	945.5	937.0	934.8	912.7	883.4	868.7	859.1	839.9	825.5
160°	931.6	936.6	931.6	926.5	925.3	906.4	881.3	868.7	861.0	845.8	834.4
162.5°	922.3	927.1	922.3	917.6	916.4	900.5	879.3	868.7	863.1	852.1	843.8
165°	909.2	914.1	909.2	904.1	902.9	891.5	876.3	868.7	866.2	861.1	857.4
167.5°	899.6	901.7	899.6	897.5	896.9	889.5	879.5	874.5	872.4	868.2	865.0
170°	896.9	896.9	896.9	896.9	896.9	889.5	879.5	874.5	874.4	874.1	873.9
172.5°	890.0	888.2	890.0	891.8	892.3	886.3	878.4	874.5	874.5	874.5	874.5
175°	885.8	885.8	885.8	885.8	885.8	882.0	877.0	874.5	875.6	878.0	879.8
177.5°	881.9	879.8	881.9	884.0	884.6	881.7	877.7	875.7	876.7	878.5	879.8
180°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8



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CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	4057.9	4035.2	4035.2	3997.3	3982.2	3970.8	3951.9	3895.2	3880.0	3864.8	3887.5
5°	4092.0	4050.3	4020.1	3951.9	3895.2	3872.4	3800.5	3664.2	3573.3	3505.2	3467.4
7.5°	4099.5	4046.5	3989.7	3883.8	3747.5	3687.0	3467.4	3217.6	3149.4	3088.9	3050.9
10°	4092.0	4031.4	3951.9	3792.9	3471.1	3365.1	3145.6	2982.8	2941.2	2929.8	2941.2
12.5°	4065.4	4008.7	3898.9	3634.0	3183.5	3111.6	2982.8	2888.2	2880.7	2899.6	3001.8
15°	4020.1	3967.1	3838.3	3422.0	3024.5	2971.5	2880.7	2846.6	2888.2	3020.7	3327.3
17.5°	3974.6	3914.1	3755.1	3213.8	2903.4	2865.5	2801.1	2869.3	3103.9	3281.9	3384.1
20°	3914.1	3842.2	3660.4	3062.3	2816.3	2782.2	2751.9	3058.6	3236.5	3300.9	3357.6
22.5°	3842.2	3766.4	3531.7	2956.4	2725.5	2698.9	2717.8	3164.6	3236.5	3281.9	3331.1
25°	3747.5	3683.1	3380.3	2873.1	2653.6	2623.3	2695.2	3153.2	3194.9	3206.2	3304.6
27.5°	3660.4	3577.1	3221.3	2797.4	2566.5	2555.1	2714.1	3103.9	3134.3	3145.6	3251.6
30°	3554.4	3429.5	3043.4	2717.8	2475.6	2471.8	2717.8	3043.4	3035.8	3066.1	3172.1
32.5°	3444.7	3209.9	2842.7	2619.5	2388.6	2384.7	2691.4	2952.6	2945.0	2986.7	3066.1
35°	3342.5	3039.7	2570.3	2505.9	2278.8	2282.5	2627.0	2846.6	2850.4	2888.2	2937.4
37.5°	3236.5	2892.0	2271.2	2381.0	2172.8	2172.8	2539.9	2748.2	2740.6	2751.9	2820.1
40°	3111.6	2661.1	2006.3	2218.2	2074.4	2063.0	2434.0	2642.2	2615.6	2611.9	2706.6
42.5°	2979.0	2407.5	1809.4	2002.4	1960.8	1945.6	2305.3	2513.5	2464.3	2475.6	2596.7
45°	2835.2	2339.4	1658.0	1692.1	1843.4	1832.1	2165.2	2365.8	2331.7	2362.1	2487.0
47.5°	2691.4	2203.1	1608.8	1404.3	1718.5	1714.8	2010.0	2222.0	2203.1	2233.4	2365.8
50°	2494.6	2051.6	1605.0	1203.8	1578.5	1593.6	1824.5	2081.9	2081.9	2108.4	2248.5
52.5°	2240.9	1866.2	1457.3	1090.1	1415.7	1461.1	1661.8	1960.8	1968.4	1994.9	2119.8
55°	2010.0	1673.2	1351.3	1003.1	1222.7	1321.1	1502.8	1835.9	1851.1	1877.5	1991.1
57.5°	1798.1	1393.0	1328.7	900.9	1044.8	1139.4	1362.7	1714.8	1722.3	1745.1	1854.8
60°	1570.9	1006.9	1218.9	791.1	889.6	961.5	1234.1	1570.9	1597.4	1612.5	1707.2
62.5°	1313.5	730.6	1105.3	715.4	813.9	829.0	1128.0	1434.6	1468.7	1480.1	1536.9
65°	934.9	613.2	938.8	651.1	734.4	738.1	1014.5	1294.6	1324.9	1343.8	1385.4
67.5°	632.1	499.7	715.4	590.5	673.8	677.6	904.7	1131.8	1173.4	1188.6	1215.1
70°	439.1	333.1	529.9	526.2	605.7	613.2	787.4	984.2	1022.0	1033.4	1048.5
72.5°	321.7	268.7	439.1	473.2	533.7	541.3	666.2	817.7	855.5	866.9	874.4
75°	246.0	283.9	355.8	412.6	454.2	458.0	545.1	666.2	692.8	700.3	704.0
77.5°	196.8	265.0	261.2	333.1	370.9	363.4	427.7	514.8	537.5	537.5	537.5
80°	147.6	208.2	196.8	238.5	272.6	265.0	306.7	367.2	374.7	382.3	378.6
82.5°	109.7	132.5	132.5	151.4	181.7	174.1	204.4	238.5	238.5	238.5	246.0
85°	68.1	75.7	60.5	79.5	102.2	98.5	113.5	128.7	132.5	132.5	124.9
87.5°	41.6	34.1	18.9	30.3	45.5	45.5	53.0	56.8	53.0	53.0	53.0
90°	15.4	10.6	5.9	10.6	15.4	16.5	26.0	38.6	44.9	39.9	29.9
92.5°	103.9	63.7	23.6	63.7	103.9	113.9	160.2	221.8	252.7	221.5	159.0
95°	203.7	130.2	56.7	130.2	203.7	222.0	394.2	623.9	738.7	659.1	500.1
97.5°	227.7	162.8	98.0	162.8	227.7	243.9	531.1	913.9	1105.4	1055.2	954.6
100°	247.4	188.7	129.9	188.7	247.4	262.1	580.8	1005.7	1218.2	1221.8	1229.2
102.5°	266.7	211.9	157.1	211.9	266.7	280.5	603.7	1034.6	1250.1	1314.1	1442.1
105°	296.0	249.5	203.1	249.5	296.0	307.6	620.6	1037.9	1246.6	1390.1	1677.2
107.5°	337.0	293.7	250.4	293.7	337.0	347.8	623.8	991.8	1175.7	1376.0	1776.5
110°	360.5	321.4	282.3	321.4	360.5	370.3	619.0	950.8	1116.7	1340.5	1788.2



TEST NUMBER: P934480

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	388.0	350.8	313.5	350.8	388.0	397.4	619.2	915.0	1062.9	1292.0	1750.2
115°	429.6	395.2	360.8	395.2	429.6	438.2	625.0	874.0	998.5	1219.2	1660.6
117.5°	469.9	438.6	407.4	438.6	469.9	477.7	636.5	848.3	954.2	1153.4	1551.8
120°	493.4	464.0	434.6	464.0	493.4	500.7	646.0	839.7	936.6	1118.6	1482.5
122.5°	520.5	490.9	461.2	490.9	520.5	527.9	659.6	835.1	922.9	1086.8	1414.6
125°	556.0	529.0	501.9	529.0	556.0	562.8	678.0	831.4	908.2	1047.4	1325.8
127.5°	589.6	562.3	535.0	562.3	589.6	596.4	696.2	829.2	895.8	1015.4	1254.4
130°	611.5	582.2	552.8	582.2	611.5	618.8	709.6	830.6	891.1	997.5	1210.4
132.5°	629.8	600.4	571.0	600.4	629.8	637.2	720.5	831.4	886.9	982.2	1172.7
135°	651.7	625.0	598.2	625.0	651.7	658.4	732.2	830.7	879.8	959.7	1119.3
137.5°	679.0	652.5	625.9	652.5	679.0	685.6	750.0	835.8	878.7	946.1	1081.1
140°	697.7	673.4	648.9	673.4	697.7	703.8	760.8	836.6	874.5	932.7	1049.4
142.5°	711.9	689.2	666.7	689.2	711.9	717.5	769.8	839.6	874.5	925.7	1028.1
145°	733.2	713.5	693.8	713.5	733.2	738.1	781.7	839.6	868.7	910.5	994.3
147.5°	759.3	740.1	721.0	740.1	759.3	764.1	799.0	845.5	868.7	901.6	967.5
150°	773.4	756.0	738.7	756.0	773.4	777.7	808.0	848.4	868.7	896.5	952.0
152.5°	783.3	770.1	757.0	770.1	783.3	786.5	813.9	850.4	868.7	892.4	939.9
155°	803.6	793.9	784.2	793.9	803.6	806.0	826.9	854.7	868.7	887.6	925.3
157.5°	823.1	813.8	804.3	813.8	823.1	825.5	839.9	859.1	868.7	883.4	912.7
160°	832.6	825.2	817.9	825.2	832.6	834.4	845.8	861.0	868.7	881.3	906.4
162.5°	842.5	837.0	831.4	837.0	842.5	843.8	852.1	863.1	868.7	879.3	900.5
165°	856.2	851.2	846.2	851.2	856.2	857.4	861.1	866.2	868.7	876.3	891.5
167.5°	864.5	862.1	859.8	862.1	864.5	865.0	868.2	872.4	874.5	879.5	889.5
170°	873.3	871.0	868.7	871.0	873.3	873.9	874.1	874.4	874.5	879.5	889.5
172.5°	874.4	873.8	873.3	873.8	874.4	874.5	874.5	874.5	874.5	878.4	886.3
175°	879.8	879.8	879.8	879.8	879.8	879.8	878.0	875.6	874.5	877.0	882.0
177.5°	879.8	879.8	879.8	879.8	879.8	879.8	878.5	876.7	875.7	877.7	881.7
180°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8



TEST NUMBER: P934480
 CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	3861.1	3849.7	3864.8	3823.2	3864.8	3849.7	3861.1	3887.5	3864.8	3880.0	3895.2
5°	3387.9	3369.0	3308.4	3259.2	3308.4	3369.0	3387.9	3467.4	3505.2	3573.3	3664.2
7.5°	3028.3	3013.1	2998.0	2967.7	2998.0	3013.1	3028.3	3050.9	3088.9	3149.4	3217.6
10°	2948.8	2952.6	2975.3	2971.5	2975.3	2952.6	2948.8	2941.2	2929.8	2941.2	2982.8
12.5°	3153.2	3187.2	3312.1	3304.6	3312.1	3187.2	3153.2	3001.8	2899.6	2880.7	2888.2
15°	3387.9	3399.2	3425.8	3429.5	3425.8	3399.2	3387.9	3327.3	3020.7	2888.2	2846.6
17.5°	3410.6	3414.4	3433.3	3433.3	3433.3	3414.4	3410.6	3384.1	3281.9	3103.9	2869.3
20°	3391.7	3399.2	3437.0	3444.7	3437.0	3399.2	3391.7	3357.6	3300.9	3236.5	3058.6
22.5°	3384.1	3399.2	3429.5	3425.8	3429.5	3399.2	3384.1	3331.1	3281.9	3236.5	3164.6
25°	3346.2	3346.2	3350.0	3353.8	3350.0	3346.2	3346.2	3304.6	3206.2	3194.9	3153.2
27.5°	3266.8	3274.3	3297.0	3293.2	3297.0	3274.3	3266.8	3251.6	3145.6	3134.3	3103.9
30°	3194.9	3187.2	3168.3	3153.2	3168.3	3187.2	3194.9	3172.1	3066.1	3035.8	3043.4
32.5°	3073.7	3054.8	3035.8	3024.5	3035.8	3054.8	3073.7	3066.1	2986.7	2945.0	2952.6
35°	2929.8	2933.7	2929.8	2918.5	2929.8	2933.7	2929.8	2937.4	2888.2	2850.4	2846.6
37.5°	2827.7	2835.2	2831.5	2816.3	2831.5	2835.2	2827.7	2820.1	2751.9	2740.6	2748.2
40°	2721.7	2725.5	2721.7	2710.3	2721.7	2725.5	2721.7	2706.6	2611.9	2615.6	2642.2
42.5°	2619.5	2615.6	2604.3	2596.7	2604.3	2615.6	2619.5	2596.7	2475.6	2464.3	2513.5
45°	2502.1	2505.9	2483.2	2471.8	2483.2	2505.9	2502.1	2487.0	2362.1	2331.7	2365.8
47.5°	2384.7	2384.7	2365.8	2354.5	2365.8	2384.7	2384.7	2365.8	2233.4	2203.1	2222.0
50°	2259.8	2256.1	2229.5	2225.8	2229.5	2256.1	2259.8	2248.5	2108.4	2081.9	2081.9
52.5°	2116.0	2116.0	2119.8	2127.4	2119.8	2116.0	2116.0	2119.8	1994.9	1968.4	1960.8
55°	1991.1	1994.9	2021.4	2028.9	2021.4	1994.9	1991.1	1991.1	1877.5	1851.1	1835.9
57.5°	1862.3	1862.3	1881.4	1881.4	1881.4	1862.3	1862.3	1854.8	1745.1	1722.3	1714.8
60°	1714.8	1722.3	1737.4	1733.7	1737.4	1722.3	1714.8	1707.2	1612.5	1597.4	1570.9
62.5°	1559.5	1567.2	1570.9	1563.3	1570.9	1567.2	1559.5	1536.9	1480.1	1468.7	1434.6
65°	1396.8	1404.3	1408.1	1400.6	1408.1	1404.3	1396.8	1385.4	1343.8	1324.9	1294.6
67.5°	1230.2	1226.4	1222.7	1237.8	1222.7	1226.4	1230.2	1215.1	1188.6	1173.4	1131.8
70°	1059.9	1059.9	1056.1	1063.7	1056.1	1059.9	1059.9	1048.5	1033.4	1022.0	984.2
72.5°	878.2	874.4	889.6	878.2	889.6	874.4	878.2	874.4	866.9	855.5	817.7
75°	700.3	707.8	700.3	711.7	700.3	707.8	700.3	704.0	700.3	692.8	666.2
77.5°	533.7	541.3	533.7	533.7	533.7	541.3	533.7	537.5	537.5	537.5	514.8
80°	378.6	374.7	374.7	370.9	374.7	374.7	378.6	378.6	382.3	374.7	367.2
82.5°	242.3	238.5	238.5	246.0	238.5	238.5	242.3	246.0	238.5	238.5	238.5
85°	132.5	136.3	128.7	128.7	128.7	136.3	132.5	124.9	132.5	132.5	128.7
87.5°	49.2	45.5	45.5	45.5	45.5	45.5	49.2	53.0	53.0	53.0	56.8
90°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	29.9	39.9	44.9	38.6
92.5°	112.2	107.7	89.9	72.0	89.9	107.7	112.2	159.0	221.5	252.7	221.8
95°	380.9	367.3	313.2	259.2	313.2	367.3	380.9	500.1	659.1	738.7	623.9
97.5°	879.3	853.6	750.6	647.8	750.6	853.6	879.3	954.6	1055.2	1105.4	913.9
100°	1234.7	1204.1	1081.5	959.0	1081.5	1204.1	1234.7	1229.2	1221.8	1218.2	1005.7
102.5°	1538.2	1512.0	1407.0	1302.0	1407.0	1512.0	1538.2	1442.1	1314.1	1250.1	1034.6
105°	1892.5	1878.4	1822.0	1765.6	1822.0	1878.4	1892.5	1677.2	1390.1	1246.6	1037.9
107.5°	2076.8	2080.3	2093.8	2107.5	2093.8	2080.3	2076.8	1776.5	1376.0	1175.7	991.8
110°	2124.0	2138.7	2197.5	2256.3	2197.5	2138.7	2124.0	1788.2	1340.5	1116.7	950.8



TEST NUMBER: P934480

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2093.9	2116.5	2206.8	2297.1	2206.8	2116.5	2093.9	1750.2	1292.0	1062.9	915.0
115°	1991.7	2023.1	2148.3	2273.5	2148.3	2023.1	1991.7	1660.6	1219.2	998.5	874.0
117.5°	1850.6	1885.3	2024.1	2163.0	2024.1	1885.3	1850.6	1551.8	1153.4	954.2	848.3
120°	1755.6	1789.3	1924.2	2059.1	1924.2	1789.3	1755.6	1482.5	1118.6	936.6	839.7
122.5°	1660.5	1693.7	1826.8	1959.9	1826.8	1693.7	1660.5	1414.6	1086.8	922.9	835.1
125°	1534.7	1565.3	1687.9	1810.5	1687.9	1565.3	1534.7	1325.8	1047.4	908.2	831.4
127.5°	1433.7	1459.6	1563.0	1666.4	1563.0	1459.6	1433.7	1254.4	1015.4	895.8	829.2
130°	1369.9	1393.8	1489.4	1584.9	1489.4	1393.8	1369.9	1210.4	997.5	891.1	830.6
132.5°	1315.6	1337.0	1422.6	1508.1	1422.6	1337.0	1315.6	1172.7	982.2	886.9	831.4
135°	1238.9	1257.4	1331.1	1404.8	1331.1	1257.4	1238.9	1119.3	959.7	879.8	830.7
137.5°	1182.2	1197.3	1257.6	1318.0	1257.6	1197.3	1182.2	1081.1	946.1	878.7	835.8
140°	1136.7	1150.9	1207.2	1263.7	1207.2	1150.9	1136.7	1049.4	932.7	874.5	836.6
142.5°	1104.8	1117.0	1165.6	1214.1	1165.6	1117.0	1104.8	1028.1	925.7	874.5	839.6
145°	1057.0	1066.2	1102.9	1139.7	1102.9	1066.2	1057.0	994.3	910.5	868.7	839.6
147.5°	1016.9	1024.5	1054.9	1085.4	1054.9	1024.5	1016.9	967.5	901.6	868.7	845.5
150°	993.8	1000.0	1024.6	1049.4	1024.6	1000.0	993.8	952.0	896.5	868.7	848.4
152.5°	975.5	980.2	998.8	1017.5	998.8	980.2	975.5	939.9	892.4	868.7	850.4
155°	953.7	956.7	969.1	981.5	969.1	956.7	953.7	925.3	887.6	868.7	854.7
157.5°	934.8	937.0	945.5	954.2	945.5	937.0	934.8	912.7	883.4	868.7	859.1
160°	925.3	926.5	931.6	936.6	931.6	926.5	925.3	906.4	881.3	868.7	861.0
162.5°	916.4	917.6	922.3	927.1	922.3	917.6	916.4	900.5	879.3	868.7	863.1
165°	902.9	904.1	909.2	914.1	909.2	904.1	902.9	891.5	876.3	868.7	866.2
167.5°	896.9	897.5	899.6	901.7	899.6	897.5	896.9	889.5	879.5	874.5	872.4
170°	896.9	896.9	896.9	896.9	896.9	896.9	896.9	889.5	879.5	874.5	874.4
172.5°	892.3	891.8	890.0	888.2	890.0	891.8	892.3	886.3	878.4	874.5	874.5
175°	885.8	885.8	885.8	885.8	885.8	885.8	885.8	882.0	877.0	874.5	875.6
177.5°	884.6	884.0	881.9	879.8	881.9	884.0	884.6	881.7	877.7	875.7	876.7
180°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	3951.9	3970.8	3982.2	3997.3	4035.2
5°	3800.5	3872.4	3895.2	3951.9	4020.1
7.5°	3467.4	3687.0	3747.5	3883.8	3989.7
10°	3145.6	3365.1	3471.1	3792.9	3951.9
12.5°	2982.8	3111.6	3183.5	3634.0	3898.9
15°	2880.7	2971.5	3024.5	3422.0	3838.3
17.5°	2801.1	2865.5	2903.4	3213.8	3755.1
20°	2751.9	2782.2	2816.3	3062.3	3660.4
22.5°	2717.8	2698.9	2725.5	2956.4	3531.7
25°	2695.2	2623.3	2653.6	2873.1	3380.3
27.5°	2714.1	2555.1	2566.5	2797.4	3221.3
30°	2717.8	2471.8	2475.6	2717.8	3043.4
32.5°	2691.4	2384.7	2388.6	2619.5	2842.7
35°	2627.0	2282.5	2278.8	2505.9	2570.3
37.5°	2539.9	2172.8	2172.8	2381.0	2271.2
40°	2434.0	2063.0	2074.4	2218.2	2006.3
42.5°	2305.3	1945.6	1960.8	2002.4	1809.4
45°	2165.2	1832.1	1843.4	1692.1	1658.0
47.5°	2010.0	1714.8	1718.5	1404.3	1608.8
50°	1824.5	1593.6	1578.5	1203.8	1605.0
52.5°	1661.8	1461.1	1415.7	1090.1	1457.3
55°	1502.8	1321.1	1222.7	1003.1	1351.3
57.5°	1362.7	1139.4	1044.8	900.9	1328.7
60°	1234.1	961.5	889.6	791.1	1218.9
62.5°	1128.0	829.0	813.9	715.4	1105.3
65°	1014.5	738.1	734.4	651.1	938.8
67.5°	904.7	677.6	673.8	590.5	715.4
70°	787.4	613.2	605.7	526.2	529.9
72.5°	666.2	541.3	533.7	473.2	439.1
75°	545.1	458.0	454.2	412.6	355.8
77.5°	427.7	363.4	370.9	333.1	261.2
80°	306.7	265.0	272.6	238.5	196.8
82.5°	204.4	174.1	181.7	151.4	132.5
85°	113.5	98.5	102.2	79.5	60.5
87.5°	53.0	45.5	45.5	30.3	18.9
90°	26.0	16.5	15.4	10.6	5.9
92.5°	160.2	113.9	103.9	63.7	23.6
95°	394.2	222.0	203.7	130.2	56.7
97.5°	531.1	243.9	227.7	162.8	98.0
100°	580.8	262.1	247.4	188.7	129.9
102.5°	603.7	280.5	266.7	211.9	157.1
105°	620.6	307.6	296.0	249.5	203.1
107.5°	623.8	347.8	337.0	293.7	250.4
110°	619.0	370.3	360.5	321.4	282.3



TEST NUMBER: P934480

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	619.2	397.4	388.0	350.8	313.5
115°	625.0	438.2	429.6	395.2	360.8
117.5°	636.5	477.7	469.9	438.6	407.4
120°	646.0	500.7	493.4	464.0	434.6
122.5°	659.6	527.9	520.5	490.9	461.2
125°	678.0	562.8	556.0	529.0	501.9
127.5°	696.2	596.4	589.6	562.3	535.0
130°	709.6	618.8	611.5	582.2	552.8
132.5°	720.5	637.2	629.8	600.4	571.0
135°	732.2	658.4	651.7	625.0	598.2
137.5°	750.0	685.6	679.0	652.5	625.9
140°	760.8	703.8	697.7	673.4	648.9
142.5°	769.8	717.5	711.9	689.2	666.7
145°	781.7	738.1	733.2	713.5	693.8
147.5°	799.0	764.1	759.3	740.1	721.0
150°	808.0	777.7	773.4	756.0	738.7
152.5°	813.9	786.5	783.3	770.1	757.0
155°	826.9	806.0	803.6	793.9	784.2
157.5°	839.9	825.5	823.1	813.8	804.3
160°	845.8	834.4	832.6	825.2	817.9
162.5°	852.1	843.8	842.5	837.0	831.4
165°	861.1	857.4	856.2	851.2	846.2
167.5°	868.2	865.0	864.5	862.1	859.8
170°	874.1	873.9	873.3	871.0	868.7
172.5°	874.5	874.5	874.4	873.8	873.3
175°	878.0	879.8	879.8	879.8	879.8
177.5°	878.5	879.8	879.8	879.8	879.8
180°	879.8	879.8	879.8	879.8	879.8



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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	14.80	15.80	15.62	16.65	17.70	17.65	18.66	18.47	19.50	20.55
	3H	15.28	16.19	16.12	17.04	18.12	19.01	19.92	19.84	20.77	21.84
	4H	15.48	16.34	16.33	17.20	18.28	19.47	20.32	20.32	21.18	22.27
	6H	15.61	16.40	16.47	17.26	18.36	19.76	20.55	20.63	21.42	22.52
	8H	15.61	16.36	16.49	17.25	18.35	19.85	20.60	20.72	21.48	22.58
	12H	15.59	16.30	16.47	17.18	18.31	19.89	20.61	20.77	21.49	22.61
4H	2H	15.85	16.71	16.71	17.57	18.65	18.07	18.93	18.93	19.79	20.87
	3H	16.89	17.60	17.76	18.50	19.60	19.60	20.31	20.47	21.20	22.31
	4H	17.17	17.82	18.05	18.71	19.84	20.14	20.79	21.02	21.68	22.80
	6H	17.31	17.87	18.20	18.78	19.91	20.52	21.08	21.41	21.99	23.12
	8H	17.32	17.84	18.21	18.75	19.89	20.63	21.15	21.53	22.06	23.21
	12H	17.29	17.76	18.21	18.69	19.84	20.70	21.17	21.62	22.10	23.25
8H	4H	17.64	18.17	18.54	19.08	20.22	20.27	20.80	21.17	21.71	22.85
	6H	17.91	18.34	18.84	19.29	20.44	20.72	21.15	21.65	22.11	23.25
	8H	17.95	18.34	18.89	19.28	20.44	20.88	21.26	21.81	22.20	23.37
	12H	17.95	18.28	18.88	19.22	20.43	20.99	21.33	21.93	22.26	23.47
12H	4H	17.66	18.13	18.57	19.06	20.21	20.24	20.72	21.16	21.64	22.79
	6H	17.97	18.36	18.91	19.30	20.46	20.72	21.10	21.65	22.05	23.21
	8H	18.05	18.39	18.99	19.32	20.53	20.89	21.23	21.83	22.16	23.38