

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: P935037

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935037
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

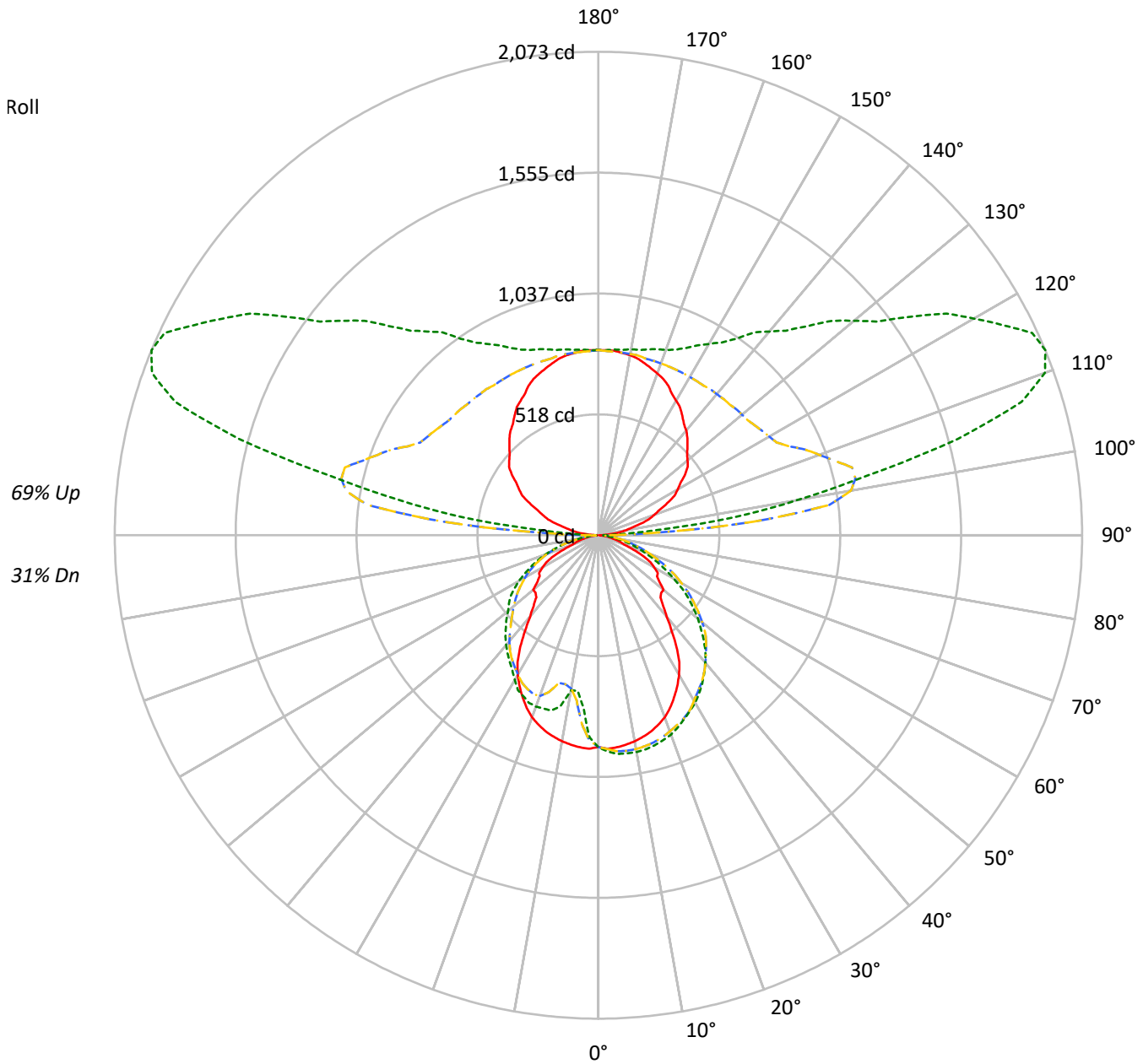
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7505.3 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 61.8
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-100U-050D-92765-1D-UNV-STD-W-6-2700K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5618	5618	5618	5618
5°	5658	5671	5658	4459
10°	5618	5587	5618	3994
15°	5555	5466	5555	4564
20°	5437	5322	5437	4573
25°	5197	5113	5197	4477
30°	4887	4940	4887	4264
35°	4356	4720	4356	4030
40°	3627	4461	3627	3853
45°	3238	4158	3238	3650
50°	3438	3798	3438	3446
55°	3231	3409	3231	3328
60°	3327	2895	3327	3048
65°	3012	2393	3012	2675
70°	2081	1907	2081	2243
75°	1818	1410	1818	1688
80°	1455	932	1455	1015
85°	823	493	823	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	1.1
10°-20°	232.8	3.1
20°-30°	359.8	4.8
30°-40°	429.5	5.7
40°-50°	432.1	5.8
50°-60°	375.9	5.0
60°-70°	266.6	3.6
70°-80°	141.0	1.9
80°-90°	38.2	0.5
90°-100°	387.0	5.2
100°-110°	1017.6	13.6
110°-120°	1055.1	14.1
120°-130°	846.3	11.3
130°-140°	664.1	8.8
140°-150°	509.7	6.8
150°-160°	367.1	4.9
160°-170°	224.6	3.0
170°-180°	75.9	1.0
0°-30°	674.6	9.0
0°-40°	1104.1	14.7
0°-60°	1912.1	25.5
0°-90°	2357.9	31.4
90°-120°	2459.7	32.8
90°-150°	4479.8	59.7
90°-180°	5147.0	68.6
0°-180°	7505.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	908	908	908	908	908	
5°	912	941	912	740	912	87
15°	871	932	871	778	871	245
25°	767	870	767	761	767	352
35°	584	776	584	662	584	361
45°	376	639	376	561	376	301
55°	307	472	307	460	307	282
65°	213	284	213	318	213	204
75°	81	135	81	162	81	85
85°	14	34	14	29	14	19
90°	5	20	5	20	5	5
95°	51	234	51	234	51	57
105°	183	1593	183	1593	183	194
115°	326	2052	326	2052	326	322
125°	453	1634	453	1634	453	402
135°	540	1268	540	1268	540	418
145°	626	1028	626	1028	626	392
155°	708	886	708	886	708	325
165°	764	825	764	825	764	216
175°	794	799	794	799	794	75
180°	794	794	794	794	794	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	916.0	916.0	921.1	922.8	922.8	920.2	917.7	920.2	928.0	930.6	929.7
5°	912.5	919.4	928.9	930.6	932.3	931.4	929.7	931.4	940.0	941.8	942.6
7.5°	905.6	918.5	930.6	933.1	935.7	933.1	932.3	934.0	942.6	944.3	944.3
10°	897.0	915.1	928.9	930.6	933.1	930.6	930.6	934.0	942.6	944.3	945.2
12.5°	885.0	909.9	922.8	924.5	928.0	927.2	926.2	929.7	938.3	940.0	940.0
15°	871.3	900.5	912.5	914.3	920.2	918.5	918.5	921.9	931.4	934.0	933.1
17.5°	852.3	888.5	902.2	904.8	909.0	908.2	909.0	912.5	921.1	922.8	923.7
20°	830.9	872.2	888.5	891.0	895.3	895.3	895.3	899.7	908.2	911.6	911.6
22.5°	801.7	854.9	872.2	873.9	879.0	879.0	880.7	886.8	894.4	895.3	895.3
25°	767.3	836.0	850.6	855.8	861.0	863.5	866.1	869.6	872.2	871.3	872.2
27.5°	731.2	811.9	830.9	834.3	841.2	843.8	847.2	848.1	848.9	851.5	849.8
30°	690.8	778.5	806.8	810.2	821.4	823.1	819.7	821.4	825.7	827.5	829.2
32.5°	645.3	728.7	781.9	789.6	800.0	794.8	793.9	796.5	803.4	803.4	805.1
35°	583.5	690.0	758.7	765.6	773.3	767.3	770.8	771.6	775.9	778.5	777.6
37.5°	515.6	656.5	734.6	739.8	745.8	738.1	743.3	745.8	749.2	747.5	747.5
40°	455.4	604.0	706.3	709.7	714.9	708.8	714.1	715.8	717.5	715.8	714.9
42.5°	410.8	546.5	676.2	680.5	677.1	681.3	683.1	686.5	684.0	680.5	680.5
45°	376.3	531.0	643.6	648.7	643.6	650.4	653.0	653.0	645.3	643.6	642.7
47.5°	365.1	500.1	611.0	611.0	608.3	616.9	621.2	615.2	607.5	604.9	604.9
50°	364.3	465.7	566.2	562.8	574.8	585.2	580.8	574.8	568.8	559.4	559.4
52.5°	330.8	423.6	508.6	521.5	540.5	546.5	539.6	533.6	523.2	519.0	515.6
55°	306.7	379.7	456.3	482.1	501.8	509.5	496.7	490.6	475.2	472.6	470.9
57.5°	301.6	316.2	408.1	440.8	464.8	464.0	456.3	445.1	432.2	429.6	428.8
60°	276.7	228.6	356.6	395.3	420.1	417.6	410.8	400.4	388.4	386.7	385.0
62.5°	250.9	165.9	298.2	342.0	377.2	376.3	370.3	354.9	346.3	342.0	338.6
65°	213.1	139.2	212.3	284.4	335.1	336.8	324.0	312.8	303.3	298.2	297.3
67.5°	162.4	113.4	143.5	237.2	294.8	293.0	276.7	271.5	259.5	256.9	251.8
70°	120.3	75.6	99.7	192.4	255.2	250.9	238.0	232.0	220.8	214.8	211.4
72.5°	99.7	61.0	73.0	149.5	214.8	209.7	198.5	191.6	182.2	177.0	173.6
75°	80.8	64.4	55.9	110.9	174.4	171.0	160.7	153.8	146.1	139.2	140.1
77.5°	59.3	60.1	44.7	81.7	138.4	133.2	127.2	118.6	115.1	108.3	108.3
80°	44.7	47.2	33.5	55.9	99.7	99.7	94.6	88.5	82.5	79.1	79.1
82.5°	30.1	30.1	24.9	35.2	67.9	65.3	61.8	60.1	56.7	55.0	55.0
85°	13.8	17.2	15.5	21.4	37.0	38.7	38.7	37.0	36.1	34.3	35.2
87.5°	4.3	7.8	9.5	12.0	18.9	19.7	20.6	20.6	20.6	21.4	21.4
90°	5.3	9.6	13.8	14.9	23.5	34.8	40.5	36.0	27.0	20.2	20.2
92.5°	21.4	57.6	93.8	102.8	144.6	200.2	228.1	199.9	143.5	101.2	97.2
95°	51.2	117.4	183.8	200.4	355.8	563.0	666.6	594.9	451.3	343.7	331.5
97.5°	88.5	147.0	205.5	220.1	479.3	824.8	997.6	952.3	861.6	793.5	770.3
100°	117.3	170.3	223.4	236.6	524.2	907.6	1099.3	1102.7	1109.3	1114.3	1086.6
102.5°	141.8	191.3	240.8	253.2	544.8	933.7	1128.1	1186.0	1301.5	1388.2	1364.6
105°	183.3	225.2	267.2	277.7	560.1	936.7	1125.0	1254.5	1513.6	1707.9	1695.2
107.5°	225.9	265.0	304.2	313.9	563.0	895.0	1061.0	1241.7	1603.1	1874.2	1877.3
110°	254.7	290.0	325.3	334.1	558.7	858.1	1007.7	1209.7	1613.8	1916.8	1930.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	283.0	316.6	350.3	358.6	558.9	825.8	959.2	1166.0	1579.5	1889.7	1910.0
115°	325.6	356.6	387.6	395.4	564.0	788.7	901.1	1100.3	1498.7	1797.5	1825.8
117.5°	367.7	395.9	424.1	431.1	574.4	765.6	861.1	1040.9	1400.4	1670.1	1701.4
120°	392.2	418.8	445.3	451.9	583.0	757.8	845.2	1009.4	1337.9	1584.3	1614.7
122.5°	416.2	443.0	469.8	476.4	595.2	753.7	832.9	980.9	1276.7	1498.5	1528.5
125°	452.9	477.4	501.8	507.9	611.8	750.4	819.6	945.3	1196.5	1385.1	1412.7
127.5°	482.8	507.4	532.1	538.3	628.3	748.4	808.4	916.3	1132.1	1293.9	1317.2
130°	498.8	525.4	551.9	558.5	640.4	749.6	804.2	900.2	1092.3	1236.4	1257.9
132.5°	515.3	541.9	568.3	575.0	650.2	750.4	800.4	886.4	1058.4	1187.3	1206.6
135°	539.8	564.0	588.2	594.2	660.8	749.6	794.0	866.0	1010.0	1118.1	1134.7
137.5°	564.8	588.8	612.8	618.7	676.8	754.3	793.0	853.9	975.6	1066.9	1080.5
140°	585.7	607.7	629.7	635.2	686.5	755.0	789.2	841.8	947.0	1025.8	1038.5
142.5°	601.6	622.1	642.4	647.5	694.7	757.7	789.2	835.4	927.8	997.0	1008.0
145°	626.2	643.9	661.7	666.1	705.4	757.8	783.9	821.7	897.3	953.9	962.2
147.5°	650.7	667.9	685.2	689.5	721.0	762.9	783.9	813.6	873.1	917.7	924.5
150°	666.6	682.3	697.9	701.8	729.2	765.6	783.9	809.0	859.2	896.8	902.4
152.5°	683.2	695.1	706.9	709.9	734.6	767.4	783.9	805.4	848.2	880.3	884.5
155°	707.7	716.4	725.2	727.4	746.3	771.4	783.9	801.0	835.1	860.6	863.4
157.5°	725.8	734.4	742.8	745.0	758.0	775.3	783.9	797.2	823.7	843.6	845.6
160°	738.1	744.7	751.4	753.0	763.3	777.1	783.9	795.3	818.0	835.1	836.2
162.5°	750.4	755.3	760.3	761.5	769.0	779.0	783.9	793.5	812.7	827.1	828.1
165°	763.7	768.1	772.6	773.8	777.2	781.7	783.9	790.8	804.5	814.8	815.9
167.5°	775.9	778.0	780.2	780.7	783.5	787.3	789.2	793.7	802.7	809.5	810.0
170°	783.9	786.1	788.2	788.7	788.9	789.1	789.2	793.7	802.7	809.5	809.5
172.5°	788.2	788.6	789.1	789.2	789.2	789.2	789.2	792.8	799.9	805.2	804.8
175°	794.0	794.0	794.0	794.0	792.4	790.2	789.2	791.4	796.0	799.4	799.4
177.5°	794.0	794.0	794.0	794.0	792.8	791.2	790.3	792.1	795.6	798.3	797.8
180°	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	931.4	928.9	931.4	929.7	930.6	928.0	920.2	917.7	920.2	922.8	922.8
5°	942.6	940.8	942.6	942.6	941.8	940.0	931.4	929.7	931.4	932.3	930.6
7.5°	946.0	943.5	946.0	944.3	944.3	942.6	934.0	932.3	933.1	935.7	933.1
10°	946.0	943.5	946.0	945.2	944.3	942.6	934.0	930.6	930.6	933.1	930.6
12.5°	941.8	940.0	941.8	940.0	940.0	938.3	929.7	926.2	927.2	928.0	924.5
15°	934.8	932.3	934.8	933.1	934.0	931.4	921.9	918.5	918.5	920.2	914.3
17.5°	924.5	921.1	924.5	923.7	922.8	921.1	912.5	909.0	908.2	909.0	904.8
20°	912.5	909.9	912.5	911.6	911.6	908.2	899.7	895.3	895.3	895.3	891.0
22.5°	893.6	891.0	893.6	895.3	895.3	894.4	886.8	880.7	879.0	879.0	873.9
25°	872.2	869.6	872.2	872.2	871.3	872.2	869.6	866.1	863.5	861.0	855.8
27.5°	851.5	849.8	851.5	849.8	851.5	848.9	848.1	847.2	843.8	841.2	834.3
30°	830.9	829.2	830.9	829.2	827.5	825.7	821.4	819.7	823.1	821.4	810.2
32.5°	805.1	803.4	805.1	805.1	803.4	803.4	796.5	793.9	794.8	800.0	789.6
35°	778.5	775.9	778.5	777.6	778.5	775.9	771.6	770.8	767.3	773.3	765.6
37.5°	747.5	745.0	747.5	747.5	747.5	749.2	745.8	743.3	738.1	745.8	739.8
40°	715.8	712.3	715.8	714.9	715.8	717.5	715.8	714.1	708.8	714.9	709.7
42.5°	679.6	678.8	679.6	680.5	680.5	684.0	686.5	683.1	681.3	677.1	680.5
45°	641.0	639.2	641.0	642.7	643.6	645.3	653.0	653.0	650.4	643.6	648.7
47.5°	599.8	595.4	599.8	604.9	604.9	607.5	615.2	621.2	616.9	608.3	611.0
50°	556.0	556.8	556.0	559.4	559.4	568.8	574.8	580.8	585.2	574.8	562.8
52.5°	513.0	512.1	513.0	515.6	519.0	523.2	533.6	539.6	546.5	540.5	521.5
55°	470.0	471.7	470.0	470.9	472.6	475.2	490.6	496.7	509.5	501.8	482.1
57.5°	427.1	424.5	427.1	428.8	429.6	432.2	445.1	456.3	464.0	464.8	440.8
60°	377.2	373.8	377.2	385.0	386.7	388.4	400.4	410.8	417.6	420.1	395.3
62.5°	333.4	327.4	333.4	338.6	342.0	346.3	354.9	370.3	376.3	377.2	342.0
65°	287.0	284.4	287.0	297.3	298.2	303.3	312.8	324.0	336.8	335.1	284.4
67.5°	244.9	244.9	244.9	251.8	256.9	259.5	271.5	276.7	293.0	294.8	237.2
70°	206.2	205.3	206.2	211.4	214.8	220.8	232.0	238.0	250.9	255.2	192.4
72.5°	169.3	168.4	169.3	173.6	177.0	182.2	191.6	198.5	209.7	214.8	149.5
75°	136.7	134.9	136.7	140.1	139.2	146.1	153.8	160.7	171.0	174.4	110.9
77.5°	104.8	104.8	104.8	108.3	108.3	115.1	118.6	127.2	133.2	138.4	81.7
80°	78.2	77.3	78.2	79.1	79.1	82.5	88.5	94.6	99.7	99.7	55.9
82.5°	55.0	53.3	55.0	55.0	55.0	56.7	60.1	61.8	65.3	67.9	35.2
85°	34.3	34.3	34.3	35.2	34.3	36.1	37.0	38.7	38.7	37.0	21.4
87.5°	22.4	21.4	22.4	21.4	21.4	20.6	20.6	20.6	19.7	18.9	12.0
90°	20.2	20.2	20.2	20.2	20.2	27.0	36.0	40.5	34.8	23.5	14.9
92.5°	81.1	65.0	81.1	97.2	101.2	143.5	199.9	228.1	200.2	144.6	102.8
95°	282.7	233.9	282.7	331.5	343.7	451.3	594.9	666.6	563.0	355.8	200.4
97.5°	677.4	584.6	677.4	770.3	793.5	861.6	952.3	997.6	824.8	479.3	220.1
100°	976.0	865.4	976.0	1086.6	1114.3	1109.3	1102.7	1099.3	907.6	524.2	236.6
102.5°	1269.7	1175.0	1269.7	1364.6	1388.2	1301.5	1186.0	1128.1	933.7	544.8	253.2
105°	1644.3	1593.4	1644.3	1695.2	1707.9	1513.6	1254.5	1125.0	936.7	560.1	277.7
107.5°	1889.7	1902.0	1889.7	1877.3	1874.2	1603.1	1241.7	1061.0	895.0	563.0	313.9
110°	1983.2	2036.2	1983.2	1930.1	1916.8	1613.8	1209.7	1007.7	858.1	558.7	334.1



TEST NUMBER: P935037

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1991.5	2073.0	1991.5	1910.0	1889.7	1579.5	1166.0	959.2	825.8	558.9	358.6
115°	1938.7	2051.7	1938.7	1825.8	1797.5	1498.7	1100.3	901.1	788.7	564.0	395.4
117.5°	1826.7	1952.0	1826.7	1701.4	1670.1	1400.4	1040.9	861.1	765.6	574.4	431.1
120°	1736.5	1858.2	1736.5	1614.7	1584.3	1337.9	1009.4	845.2	757.8	583.0	451.9
122.5°	1648.6	1768.7	1648.6	1528.5	1498.5	1276.7	980.9	832.9	753.7	595.2	476.4
125°	1523.3	1633.9	1523.3	1412.7	1385.1	1196.5	945.3	819.6	750.4	611.8	507.9
127.5°	1410.6	1503.9	1410.6	1317.2	1293.9	1132.1	916.3	808.4	748.4	628.3	538.3
130°	1344.1	1430.3	1344.1	1257.9	1236.4	1092.3	900.2	804.2	749.6	640.4	558.5
132.5°	1283.8	1361.1	1283.8	1206.6	1187.3	1058.4	886.4	800.4	750.4	650.2	575.0
135°	1201.2	1267.8	1201.2	1134.7	1118.1	1010.0	866.0	794.0	749.6	660.8	594.2
137.5°	1135.0	1189.5	1135.0	1080.5	1066.9	975.6	853.9	793.0	754.3	676.8	618.7
140°	1089.5	1140.4	1089.5	1038.5	1025.8	947.0	841.8	789.2	755.0	686.5	635.2
142.5°	1051.9	1095.7	1051.9	1008.0	997.0	927.8	835.4	789.2	757.7	694.7	647.5
145°	995.4	1028.5	995.4	962.2	953.9	897.3	821.7	783.9	757.8	705.4	666.1
147.5°	952.0	979.5	952.0	924.5	917.7	873.1	813.6	783.9	762.9	721.0	689.5
150°	924.7	947.0	924.7	902.4	896.8	859.2	809.0	783.9	765.6	729.2	701.8
152.5°	901.4	918.2	901.4	884.5	880.3	848.2	805.4	783.9	767.4	734.6	709.9
155°	874.5	885.6	874.5	863.4	860.6	835.1	801.0	783.9	771.4	746.3	727.4
157.5°	853.4	861.1	853.4	845.6	843.6	823.7	797.2	783.9	775.3	758.0	745.0
160°	840.7	845.2	840.7	836.2	835.1	818.0	795.3	783.9	777.1	763.3	753.0
162.5°	832.3	836.6	832.3	828.1	827.1	812.7	793.5	783.9	779.0	769.0	761.5
165°	820.5	824.9	820.5	815.9	814.8	804.5	790.8	783.9	781.7	777.2	773.8
167.5°	811.8	813.7	811.8	810.0	809.5	802.7	793.7	789.2	787.3	783.5	780.7
170°	809.5	809.5	809.5	809.5	809.5	802.7	793.7	789.2	789.1	788.9	788.7
172.5°	803.1	801.5	803.1	804.8	805.2	799.9	792.8	789.2	789.2	789.2	789.2
175°	799.4	799.4	799.4	799.4	799.4	796.0	791.4	789.2	790.2	792.4	794.0
177.5°	795.9	794.0	795.9	797.8	798.3	795.6	792.1	790.3	791.2	792.8	794.0
180°	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0



TEST NUMBER: P935037

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	921.1	916.0	916.0	907.3	903.9	901.4	897.0	884.2	880.7	877.3	882.4
5°	928.9	919.4	912.5	897.0	884.2	879.0	862.7	831.7	811.1	795.6	787.1
7.5°	930.6	918.5	905.6	881.5	850.6	836.9	787.1	730.4	714.9	701.2	692.5
10°	928.9	915.1	897.0	861.0	787.9	763.8	714.1	677.1	667.6	665.0	667.6
12.5°	922.8	909.9	885.0	824.8	722.6	706.3	677.1	655.6	653.8	658.2	681.3
15°	912.5	900.5	871.3	776.7	686.5	674.5	653.8	646.1	655.6	685.7	755.3
17.5°	902.2	888.5	852.3	729.5	659.0	650.4	635.8	651.3	704.6	745.0	768.1
20°	888.5	872.2	830.9	695.1	639.2	631.5	624.6	694.2	734.6	749.2	762.1
22.5°	872.2	854.9	801.7	671.1	618.6	612.7	616.9	718.3	734.6	745.0	756.2
25°	850.6	836.0	767.3	652.1	602.3	595.4	611.8	715.8	725.2	727.8	750.1
27.5°	830.9	811.9	731.2	635.0	582.6	580.0	616.1	704.6	711.5	714.1	738.1
30°	806.8	778.5	690.8	616.9	561.9	561.1	616.9	690.8	689.1	695.9	720.0
32.5°	781.9	728.7	645.3	594.6	542.2	541.3	611.0	670.2	668.5	677.9	695.9
35°	758.7	690.0	583.5	568.8	517.3	518.1	596.3	646.1	647.0	655.6	666.7
37.5°	734.6	656.5	515.6	540.5	493.2	493.2	576.5	623.8	622.1	624.6	640.2
40°	706.3	604.0	455.4	503.5	470.9	468.3	552.4	599.8	593.7	592.9	614.4
42.5°	676.2	546.5	410.8	454.6	445.1	441.7	523.2	570.6	559.4	561.9	589.4
45°	643.6	531.0	376.3	384.1	418.4	415.9	491.5	537.0	529.3	536.1	564.5
47.5°	611.0	500.1	365.1	318.8	390.1	389.2	456.3	504.4	500.1	506.9	537.0
50°	566.2	465.7	364.3	273.2	358.3	361.7	414.2	472.6	472.6	478.6	510.4
52.5°	508.6	423.6	330.8	247.4	321.3	331.7	377.2	445.1	446.8	452.9	481.1
55°	456.3	379.7	306.7	227.7	277.5	299.9	341.1	416.7	420.1	426.2	451.9
57.5°	408.1	316.2	301.6	204.5	237.2	258.6	309.4	389.2	390.9	396.1	421.0
60°	356.6	228.6	276.7	179.5	201.9	218.2	280.1	356.6	362.6	366.0	387.5
62.5°	298.2	165.9	250.9	162.4	184.7	188.2	256.1	325.7	333.4	335.9	348.8
65°	212.3	139.2	213.1	147.8	166.7	167.6	230.3	293.8	300.7	305.0	314.5
67.5°	143.5	113.4	162.4	134.0	153.0	153.8	205.3	256.9	266.4	269.8	275.8
70°	99.7	75.6	120.3	119.4	137.5	139.2	178.7	223.4	232.0	234.5	238.0
72.5°	73.0	61.0	99.7	107.4	121.1	122.9	151.3	185.6	194.2	196.8	198.5
75°	55.9	64.4	80.8	93.7	103.1	103.9	123.8	151.3	157.2	159.0	159.8
77.5°	44.7	60.1	59.3	75.6	84.2	82.5	97.1	116.8	122.0	122.0	122.0
80°	33.5	47.2	44.7	54.2	61.8	60.1	69.6	83.4	85.1	86.8	85.9
82.5°	24.9	30.1	30.1	34.3	41.3	39.5	46.4	54.2	54.2	54.2	55.9
85°	15.5	17.2	13.8	18.0	23.2	22.4	25.8	29.2	30.1	30.1	28.4
87.5°	9.5	7.8	4.3	6.8	10.3	10.3	12.0	12.9	12.0	12.0	12.0
90°	13.8	9.6	5.3	9.6	13.8	14.9	23.5	34.8	40.5	36.0	27.0
92.5°	93.8	57.6	21.4	57.6	93.8	102.8	144.6	200.2	228.1	199.9	143.5
95°	183.8	117.4	51.2	117.4	183.8	200.4	355.8	563.0	666.6	594.9	451.3
97.5°	205.5	147.0	88.5	147.0	205.5	220.1	479.3	824.8	997.6	952.3	861.6
100°	223.4	170.3	117.3	170.3	223.4	236.6	524.2	907.6	1099.3	1102.7	1109.3
102.5°	240.8	191.3	141.8	191.3	240.8	253.2	544.8	933.7	1128.1	1186.0	1301.5
105°	267.2	225.2	183.3	225.2	267.2	277.7	560.1	936.7	1125.0	1254.5	1513.6
107.5°	304.2	265.0	225.9	265.0	304.2	313.9	563.0	895.0	1061.0	1241.7	1603.1
110°	325.3	290.0	254.7	290.0	325.3	334.1	558.7	858.1	1007.7	1209.7	1613.8



TEST NUMBER: P935037

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	350.3	316.6	283.0	316.6	350.3	358.6	558.9	825.8	959.2	1166.0	1579.5
115°	387.6	356.6	325.6	356.6	387.6	395.4	564.0	788.7	901.1	1100.3	1498.7
117.5°	424.1	395.9	367.7	395.9	424.1	431.1	574.4	765.6	861.1	1040.9	1400.4
120°	445.3	418.8	392.2	418.8	445.3	451.9	583.0	757.8	845.2	1009.4	1337.9
122.5°	469.8	443.0	416.2	443.0	469.8	476.4	595.2	753.7	832.9	980.9	1276.7
125°	501.8	477.4	452.9	477.4	501.8	507.9	611.8	750.4	819.6	945.3	1196.5
127.5°	532.1	507.4	482.8	507.4	532.1	538.3	628.3	748.4	808.4	916.3	1132.1
130°	551.9	525.4	498.8	525.4	551.9	558.5	640.4	749.6	804.2	900.2	1092.3
132.5°	568.3	541.9	515.3	541.9	568.3	575.0	650.2	750.4	800.4	886.4	1058.4
135°	588.2	564.0	539.8	564.0	588.2	594.2	660.8	749.6	794.0	866.0	1010.0
137.5°	612.8	588.8	564.8	588.8	612.8	618.7	676.8	754.3	793.0	853.9	975.6
140°	629.7	607.7	585.7	607.7	629.7	635.2	686.5	755.0	789.2	841.8	947.0
142.5°	642.4	622.1	601.6	622.1	642.4	647.5	694.7	757.7	789.2	835.4	927.8
145°	661.7	643.9	626.2	643.9	661.7	666.1	705.4	757.8	783.9	821.7	897.3
147.5°	685.2	667.9	650.7	667.9	685.2	689.5	721.0	762.9	783.9	813.6	873.1
150°	697.9	682.3	666.6	682.3	697.9	701.8	729.2	765.6	783.9	809.0	859.2
152.5°	706.9	695.1	683.2	695.1	706.9	709.9	734.6	767.4	783.9	805.4	848.2
155°	725.2	716.4	707.7	716.4	725.2	727.4	746.3	771.4	783.9	801.0	835.1
157.5°	742.8	734.4	725.8	734.4	742.8	745.0	758.0	775.3	783.9	797.2	823.7
160°	751.4	744.7	738.1	744.7	751.4	753.0	763.3	777.1	783.9	795.3	818.0
162.5°	760.3	755.3	750.4	755.3	760.3	761.5	769.0	779.0	783.9	793.5	812.7
165°	772.6	768.1	763.7	768.1	772.6	773.8	777.2	781.7	783.9	790.8	804.5
167.5°	780.2	778.0	775.9	778.0	780.2	780.7	783.5	787.3	789.2	793.7	802.7
170°	788.2	786.1	783.9	786.1	788.2	788.7	788.9	789.1	789.2	793.7	802.7
172.5°	789.1	788.6	788.2	788.6	789.1	789.2	789.2	789.2	789.2	792.8	799.9
175°	794.0	794.0	794.0	794.0	794.0	794.0	792.4	790.2	789.2	791.4	796.0
177.5°	794.0	794.0	794.0	794.0	794.0	794.0	792.8	791.2	790.3	792.1	795.6
180°	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0



TEST NUMBER: P935037

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	876.4	873.9	877.3	867.8	877.3	873.9	876.4	882.4	877.3	880.7	884.2
5°	769.1	764.7	750.9	739.8	750.9	764.7	769.1	787.1	795.6	811.1	831.7
7.5°	687.4	684.0	680.5	673.7	680.5	684.0	687.4	692.5	701.2	714.9	730.4
10°	669.4	670.2	675.4	674.5	675.4	670.2	669.4	667.6	665.0	667.6	677.1
12.5°	715.8	723.4	751.8	750.1	751.8	723.4	715.8	681.3	658.2	653.8	655.6
15°	769.1	771.6	777.6	778.5	777.6	771.6	769.1	755.3	685.7	655.6	646.1
17.5°	774.2	775.0	779.3	779.3	779.3	775.0	774.2	768.1	745.0	704.6	651.3
20°	769.9	771.6	780.2	781.9	780.2	771.6	769.9	762.1	749.2	734.6	694.2
22.5°	768.1	771.6	778.5	777.6	778.5	771.6	768.1	756.2	745.0	734.6	718.3
25°	759.6	759.6	760.4	761.3	760.4	759.6	759.6	750.1	727.8	725.2	715.8
27.5°	741.6	743.3	748.4	747.5	748.4	743.3	741.6	738.1	714.1	711.5	704.6
30°	725.2	723.4	719.2	715.8	719.2	723.4	725.2	720.0	695.9	689.1	690.8
32.5°	697.7	693.4	689.1	686.5	689.1	693.4	697.7	695.9	677.9	668.5	670.2
35°	665.0	665.9	665.0	662.5	665.0	665.9	665.0	666.7	655.6	647.0	646.1
37.5°	641.9	643.6	642.7	639.2	642.7	643.6	641.9	640.2	624.6	622.1	623.8
40°	617.8	618.6	617.8	615.2	617.8	618.6	617.8	614.4	592.9	593.7	599.8
42.5°	594.6	593.7	591.1	589.4	591.1	593.7	594.6	589.4	561.9	559.4	570.6
45°	568.0	568.8	563.6	561.1	563.6	568.8	568.0	564.5	536.1	529.3	537.0
47.5°	541.3	541.3	537.0	534.4	537.0	541.3	541.3	537.0	506.9	500.1	504.4
50°	513.0	512.1	506.1	505.2	506.1	512.1	513.0	510.4	478.6	472.6	472.6
52.5°	480.3	480.3	481.1	482.9	481.1	480.3	480.3	481.1	452.9	446.8	445.1
55°	451.9	452.9	458.8	460.5	458.8	452.9	451.9	451.9	426.2	420.1	416.7
57.5°	422.7	422.7	427.1	427.1	427.1	422.7	422.7	421.0	396.1	390.9	389.2
60°	389.2	390.9	394.4	393.5	394.4	390.9	389.2	387.5	366.0	362.6	356.6
62.5°	354.0	355.7	356.6	354.9	356.6	355.7	354.0	348.8	335.9	333.4	325.7
65°	317.1	318.8	319.6	317.9	319.6	318.8	317.1	314.5	305.0	300.7	293.8
67.5°	279.2	278.4	277.5	281.0	277.5	278.4	279.2	275.8	269.8	266.4	256.9
70°	240.6	240.6	239.8	241.5	239.8	240.6	240.6	238.0	234.5	232.0	223.4
72.5°	199.4	198.5	201.9	199.4	201.9	198.5	199.4	198.5	196.8	194.2	185.6
75°	159.0	160.7	159.0	161.5	159.0	160.7	159.0	159.8	159.0	157.2	151.3
77.5°	121.1	122.9	121.1	121.1	121.1	122.9	121.1	122.0	122.0	122.0	116.8
80°	85.9	85.1	85.1	84.2	85.1	85.1	85.9	85.9	86.8	85.1	83.4
82.5°	55.0	54.2	54.2	55.9	54.2	54.2	55.0	55.9	54.2	54.2	54.2
85°	30.1	30.9	29.2	29.2	29.2	30.9	30.1	28.4	30.1	30.1	29.2
87.5°	11.2	10.3	10.3	10.3	10.3	10.3	11.2	12.0	12.0	12.0	12.9
90°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	27.0	36.0	40.5	34.8
92.5°	101.2	97.2	81.1	65.0	81.1	97.2	101.2	143.5	199.9	228.1	200.2
95°	343.7	331.5	282.7	233.9	282.7	331.5	343.7	451.3	594.9	666.6	563.0
97.5°	793.5	770.3	677.4	584.6	677.4	770.3	793.5	861.6	952.3	997.6	824.8
100°	1114.3	1086.6	976.0	865.4	976.0	1086.6	1114.3	1109.3	1102.7	1099.3	907.6
102.5°	1388.2	1364.6	1269.7	1175.0	1269.7	1364.6	1388.2	1301.5	1186.0	1128.1	933.7
105°	1707.9	1695.2	1644.3	1593.4	1644.3	1695.2	1707.9	1513.6	1254.5	1125.0	936.7
107.5°	1874.2	1877.3	1889.7	1902.0	1889.7	1877.3	1874.2	1603.1	1241.7	1061.0	895.0
110°	1916.8	1930.1	1983.2	2036.2	1983.2	1930.1	1916.8	1613.8	1209.7	1007.7	858.1



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CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1889.7	1910.0	1991.5	2073.0	1991.5	1910.0	1889.7	1579.5	1166.0	959.2	825.8
115°	1797.5	1825.8	1938.7	2051.7	1938.7	1825.8	1797.5	1498.7	1100.3	901.1	788.7
117.5°	1670.1	1701.4	1826.7	1952.0	1826.7	1701.4	1670.1	1400.4	1040.9	861.1	765.6
120°	1584.3	1614.7	1736.5	1858.2	1736.5	1614.7	1584.3	1337.9	1009.4	845.2	757.8
122.5°	1498.5	1528.5	1648.6	1768.7	1648.6	1528.5	1498.5	1276.7	980.9	832.9	753.7
125°	1385.1	1412.7	1523.3	1633.9	1523.3	1412.7	1385.1	1196.5	945.3	819.6	750.4
127.5°	1293.9	1317.2	1410.6	1503.9	1410.6	1317.2	1293.9	1132.1	916.3	808.4	748.4
130°	1236.4	1257.9	1344.1	1430.3	1344.1	1257.9	1236.4	1092.3	900.2	804.2	749.6
132.5°	1187.3	1206.6	1283.8	1361.1	1283.8	1206.6	1187.3	1058.4	886.4	800.4	750.4
135°	1118.1	1134.7	1201.2	1267.8	1201.2	1134.7	1118.1	1010.0	866.0	794.0	749.6
137.5°	1066.9	1080.5	1135.0	1189.5	1135.0	1080.5	1066.9	975.6	853.9	793.0	754.3
140°	1025.8	1038.5	1089.5	1140.4	1089.5	1038.5	1025.8	947.0	841.8	789.2	755.0
142.5°	997.0	1008.0	1051.9	1095.7	1051.9	1008.0	997.0	927.8	835.4	789.2	757.7
145°	953.9	962.2	995.4	1028.5	995.4	962.2	953.9	897.3	821.7	783.9	757.8
147.5°	917.7	924.5	952.0	979.5	952.0	924.5	917.7	873.1	813.6	783.9	762.9
150°	896.8	902.4	924.7	947.0	924.7	902.4	896.8	859.2	809.0	783.9	765.6
152.5°	880.3	884.5	901.4	918.2	901.4	884.5	880.3	848.2	805.4	783.9	767.4
155°	860.6	863.4	874.5	885.6	874.5	863.4	860.6	835.1	801.0	783.9	771.4
157.5°	843.6	845.6	853.4	861.1	853.4	845.6	843.6	823.7	797.2	783.9	775.3
160°	835.1	836.2	840.7	845.2	840.7	836.2	835.1	818.0	795.3	783.9	777.1
162.5°	827.1	828.1	832.3	836.6	832.3	828.1	827.1	812.7	793.5	783.9	779.0
165°	814.8	815.9	820.5	824.9	820.5	815.9	814.8	804.5	790.8	783.9	781.7
167.5°	809.5	810.0	811.8	813.7	811.8	810.0	809.5	802.7	793.7	789.2	787.3
170°	809.5	809.5	809.5	809.5	809.5	809.5	809.5	802.7	793.7	789.2	789.1
172.5°	805.2	804.8	803.1	801.5	803.1	804.8	805.2	799.9	792.8	789.2	789.2
175°	799.4	799.4	799.4	799.4	799.4	799.4	799.4	796.0	791.4	789.2	790.2
177.5°	798.3	797.8	795.9	794.0	795.9	797.8	798.3	795.6	792.1	790.3	791.2
180°	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	908.2	908.2	908.2	908.2	908.2
2.5°	897.0	901.4	903.9	907.3	916.0
5°	862.7	879.0	884.2	897.0	912.5
7.5°	787.1	836.9	850.6	881.5	905.6
10°	714.1	763.8	787.9	861.0	897.0
12.5°	677.1	706.3	722.6	824.8	885.0
15°	653.8	674.5	686.5	776.7	871.3
17.5°	635.8	650.4	659.0	729.5	852.3
20°	624.6	631.5	639.2	695.1	830.9
22.5°	616.9	612.7	618.6	671.1	801.7
25°	611.8	595.4	602.3	652.1	767.3
27.5°	616.1	580.0	582.6	635.0	731.2
30°	616.9	561.1	561.9	616.9	690.8
32.5°	611.0	541.3	542.2	594.6	645.3
35°	596.3	518.1	517.3	568.8	583.5
37.5°	576.5	493.2	493.2	540.5	515.6
40°	552.4	468.3	470.9	503.5	455.4
42.5°	523.2	441.7	445.1	454.6	410.8
45°	491.5	415.9	418.4	384.1	376.3
47.5°	456.3	389.2	390.1	318.8	365.1
50°	414.2	361.7	358.3	273.2	364.3
52.5°	377.2	331.7	321.3	247.4	330.8
55°	341.1	299.9	277.5	227.7	306.7
57.5°	309.4	258.6	237.2	204.5	301.6
60°	280.1	218.2	201.9	179.5	276.7
62.5°	256.1	188.2	184.7	162.4	250.9
65°	230.3	167.6	166.7	147.8	213.1
67.5°	205.3	153.8	153.0	134.0	162.4
70°	178.7	139.2	137.5	119.4	120.3
72.5°	151.3	122.9	121.1	107.4	99.7
75°	123.8	103.9	103.1	93.7	80.8
77.5°	97.1	82.5	84.2	75.6	59.3
80°	69.6	60.1	61.8	54.2	44.7
82.5°	46.4	39.5	41.3	34.3	30.1
85°	25.8	22.4	23.2	18.0	13.8
87.5°	12.0	10.3	10.3	6.8	4.3
90°	23.5	14.9	13.8	9.6	5.3
92.5°	144.6	102.8	93.8	57.6	21.4
95°	355.8	200.4	183.8	117.4	51.2
97.5°	479.3	220.1	205.5	147.0	88.5
100°	524.2	236.6	223.4	170.3	117.3
102.5°	544.8	253.2	240.8	191.3	141.8
105°	560.1	277.7	267.2	225.2	183.3
107.5°	563.0	313.9	304.2	265.0	225.9
110°	558.7	334.1	325.3	290.0	254.7



TEST NUMBER: P935037

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	558.9	358.6	350.3	316.6	283.0
115°	564.0	395.4	387.6	356.6	325.6
117.5°	574.4	431.1	424.1	395.9	367.7
120°	583.0	451.9	445.3	418.8	392.2
122.5°	595.2	476.4	469.8	443.0	416.2
125°	611.8	507.9	501.8	477.4	452.9
127.5°	628.3	538.3	532.1	507.4	482.8
130°	640.4	558.5	551.9	525.4	498.8
132.5°	650.2	575.0	568.3	541.9	515.3
135°	660.8	594.2	588.2	564.0	539.8
137.5°	676.8	618.7	612.8	588.8	564.8
140°	686.5	635.2	629.7	607.7	585.7
142.5°	694.7	647.5	642.4	622.1	601.6
145°	705.4	666.1	661.7	643.9	626.2
147.5°	721.0	689.5	685.2	667.9	650.7
150°	729.2	701.8	697.9	682.3	666.6
152.5°	734.6	709.9	706.9	695.1	683.2
155°	746.3	727.4	725.2	716.4	707.7
157.5°	758.0	745.0	742.8	734.4	725.8
160°	763.3	753.0	751.4	744.7	738.1
162.5°	769.0	761.5	760.3	755.3	750.4
165°	777.2	773.8	772.6	768.1	763.7
167.5°	783.5	780.7	780.2	778.0	775.9
170°	788.9	788.7	788.2	786.1	783.9
172.5°	789.2	789.2	789.1	788.6	788.2
175°	792.4	794.0	794.0	794.0	794.0
177.5°	792.8	794.0	794.0	794.0	794.0
180°	794.0	794.0	794.0	794.0	794.0



TEST NUMBER: P935037

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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	8.78	9.49	9.88	10.59	12.10	11.60	12.32	12.70	13.41	14.93
	3H	9.24	9.88	10.35	10.99	12.52	12.93	13.57	14.04	14.68	16.21
	4H	9.43	10.03	10.55	11.14	12.68	13.37	13.98	14.49	15.09	16.62
	6H	9.54	10.10	10.67	11.21	12.76	13.64	14.20	14.77	15.32	16.86
	8H	9.53	10.07	10.67	11.19	12.73	13.71	14.25	14.85	15.37	16.91
	12H	9.50	10.01	10.64	11.13	12.69	13.75	14.25	14.88	15.37	16.94
4H	2H	9.79	10.40	10.92	11.50	13.04	11.99	12.60	13.12	13.71	15.24
	3H	10.80	11.31	11.94	12.44	13.99	13.48	13.99	14.62	15.12	16.67
	4H	11.07	11.54	12.21	12.66	14.23	14.00	14.47	15.14	15.59	17.16
	6H	11.19	11.59	12.33	12.73	14.29	14.36	14.76	15.50	15.90	17.46
	8H	11.19	11.56	12.33	12.70	14.28	14.46	14.83	15.60	15.97	17.55
	12H	11.15	11.49	12.31	12.64	14.22	14.51	14.85	15.67	16.00	17.58
8H	4H	11.51	11.89	12.66	13.02	14.60	14.12	14.49	15.26	15.63	17.20
	6H	11.77	12.08	12.93	13.26	14.83	14.54	14.85	15.71	16.03	17.61
	8H	11.81	12.08	12.98	13.24	14.83	14.69	14.96	15.86	16.12	17.72
	12H	11.79	12.02	12.96	13.18	14.81	14.78	15.02	15.96	16.18	17.80
12H	4H	11.51	11.85	12.67	13.00	14.58	14.07	14.41	15.23	15.56	17.14
	6H	11.83	12.10	13.00	13.26	14.85	14.54	14.81	15.71	15.97	17.56
	8H	11.89	12.12	13.06	13.28	14.91	14.69	14.93	15.87	16.09	17.71