

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: P935438

Luminaire Tested: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

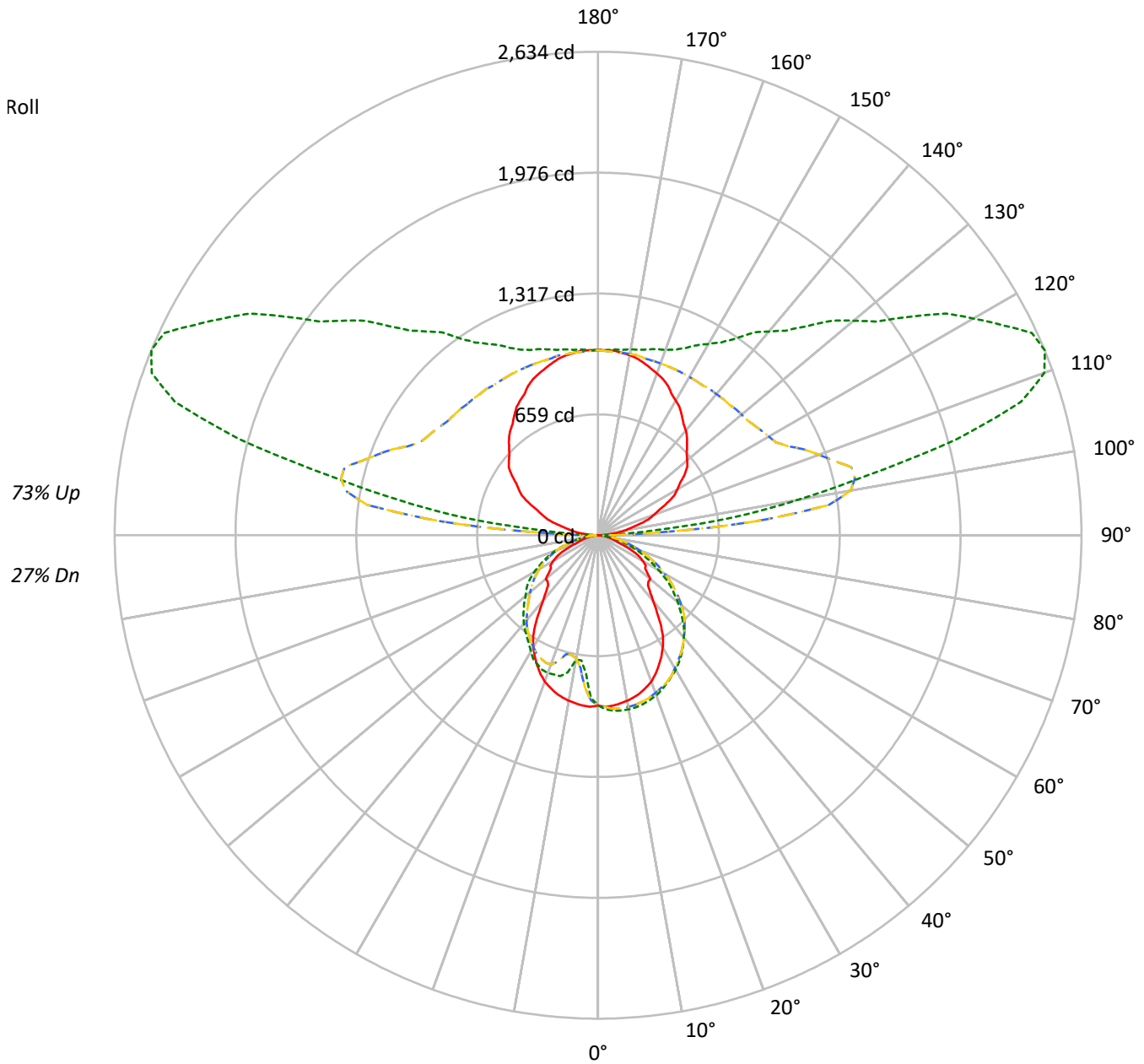
Test Method: LM-79-2019  
Report Number: P935438  
REPORT IS A COMBINATION OF REPORTS P933755 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8949.7 lumens  
Efficiency: N/A  
Efficacy: 125.3 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): 71.4  
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-125U-050D-92765-1D-UNV-STD-W-6-3000K

### 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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	10
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5777	5790	5777	4553
10°	5736	5704	5736	4078
15°	5672	5580	5672	4660
20°	5551	5434	5551	4669
25°	5305	5220	5305	4570
30°	4990	5043	4990	4353
35°	4447	4819	4447	4114
40°	3703	4555	3703	3934
45°	3306	4245	3306	3726
50°	3509	3878	3509	3518
55°	3298	3480	3298	3398
60°	3397	2956	3397	3112
65°	3075	2444	3075	2731
70°	2124	1947	2124	2289
75°	1856	1439	1856	1723
80°	1484	951	1484	1037
85°	835	504	835	428

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5071 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.7	0.9
10°-20°	237.6	2.7
20°-30°	367.4	4.1
30°-40°	438.6	4.9
40°-50°	441.1	4.9
50°-60°	383.8	4.3
60°-70°	272.1	3.0
70°-80°	144.0	1.6
80°-90°	39.7	0.4
90°-100°	491.9	5.5
100°-110°	1293.2	14.4
110°-120°	1340.9	15.0
120°-130°	1075.6	12.0
130°-140°	843.9	9.4
140°-150°	647.8	7.2
150°-160°	466.5	5.2
160°-170°	285.4	3.2
170°-180°	96.4	1.1
0°-30°	688.7	7.7
0°-40°	1127.3	12.6
0°-60°	1952.2	21.8
0°-90°	2408.1	26.9
90°-120°	3126.0	34.9
90°-150°	5693.3	63.6
90°-180°	6542.0	73.1
0°-180°	8949.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	927	927	927	927	927	
5°	932	960	932	755	932	88
15°	890	952	890	795	890	250
25°	783	888	783	777	783	360
35°	596	792	596	676	596	369
45°	384	653	384	573	384	308
55°	313	482	313	470	313	288
65°	218	290	218	325	218	208
75°	82	138	82	165	82	87
85°	14	35	14	30	14	19
90°	7	26	7	26	7	6
95°	65	297	65	297	65	72
105°	233	2025	233	2025	233	247
115°	414	2607	414	2607	414	409
125°	576	2076	576	2076	576	511
135°	686	1611	686	1611	686	531
145°	796	1307	796	1307	796	499
155°	899	1126	899	1126	899	413
165°	970	1048	970	1048	970	274
175°	1009	1016	1009	1016	1009	96
180°	1009	1009	1009	1009	1009	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	935.2	935.2	940.4	942.1	942.1	939.5	936.9	939.5	947.5	950.1	949.2
5°	931.6	938.7	948.3	950.1	951.8	951.0	949.2	951.0	959.7	961.5	962.4
7.5°	924.6	937.8	950.1	952.7	955.3	952.7	951.8	953.6	962.4	964.1	964.1
10°	915.8	934.3	948.3	950.1	952.7	950.1	950.1	953.6	962.4	964.1	965.0
12.5°	903.6	929.0	942.1	943.9	947.5	946.6	945.6	949.2	957.9	959.7	959.7
15°	889.6	919.4	931.6	933.4	939.5	937.8	937.8	941.3	951.0	953.6	952.7
17.5°	870.2	907.1	921.1	923.7	928.1	927.2	928.1	931.6	940.4	942.1	943.0
20°	848.3	890.4	907.1	909.7	914.1	914.1	914.1	918.5	927.2	930.7	930.7
22.5°	818.5	872.8	890.4	892.2	897.4	897.4	899.2	905.3	913.2	914.1	914.1
25°	783.3	853.5	868.5	873.8	879.0	881.6	884.2	887.8	890.4	889.6	890.4
27.5°	746.5	829.0	848.3	851.8	858.9	861.5	865.0	865.8	866.7	869.3	867.6
30°	705.3	794.8	823.7	827.2	838.6	840.4	836.9	838.6	843.0	844.8	846.6
32.5°	658.8	743.9	798.3	806.2	816.7	811.4	810.6	813.2	820.2	820.2	822.0
35°	595.7	704.4	774.6	781.6	789.5	783.3	786.9	787.8	792.2	794.8	793.9
37.5°	526.4	670.2	750.0	755.3	761.5	753.5	758.8	761.5	764.9	763.2	763.2
40°	465.0	616.7	721.1	724.6	729.9	723.7	729.0	730.8	732.5	730.8	729.9
42.5°	419.4	557.9	690.4	694.7	691.3	695.6	697.5	700.9	698.3	694.7	694.7
45°	384.2	542.1	657.1	662.3	657.1	664.1	666.7	666.7	658.8	657.1	656.2
47.5°	372.8	510.6	623.8	623.8	621.1	629.9	634.2	628.1	620.2	617.6	617.6
50°	371.9	475.4	578.1	574.6	586.9	597.4	593.0	586.9	580.8	571.1	571.1
52.5°	337.7	432.4	519.3	532.5	551.8	557.9	551.0	544.8	534.2	529.8	526.4
55°	313.1	387.7	465.8	492.2	512.3	520.2	507.1	500.9	485.1	482.5	480.8
57.5°	307.9	322.8	416.7	450.1	474.6	473.7	465.8	454.4	441.2	438.6	437.8
60°	282.5	233.4	364.1	403.6	429.0	426.3	419.4	408.8	396.5	394.8	393.0
62.5°	256.1	169.3	304.4	349.2	385.1	384.2	378.1	362.3	353.5	349.2	345.7
65°	217.6	142.1	216.7	290.4	342.1	343.8	330.8	319.3	309.7	304.4	303.6
67.5°	165.8	115.8	146.5	242.2	300.9	299.1	282.5	277.2	264.9	262.3	257.1
70°	122.8	77.2	101.8	196.5	260.6	256.1	243.0	236.8	225.4	219.3	215.8
72.5°	101.8	62.3	74.6	152.6	219.3	214.1	202.7	195.6	186.0	180.7	177.2
75°	82.5	65.8	57.0	113.2	178.1	174.6	164.0	157.1	149.1	142.1	143.0
77.5°	60.5	61.4	45.6	83.4	141.3	136.0	129.8	121.0	117.6	110.6	110.6
80°	45.6	48.2	34.2	57.0	101.8	101.8	96.5	90.3	84.2	80.8	80.8
82.5°	30.7	30.7	25.5	35.9	69.3	66.7	63.1	61.4	57.9	56.2	56.2
85°	14.0	17.5	15.8	21.9	37.8	39.5	39.5	37.8	36.9	35.1	35.9
87.5°	4.4	7.9	9.7	12.3	19.3	20.1	21.0	21.0	21.0	21.9	21.9
90°	6.8	12.2	17.6	18.9	29.7	44.2	51.5	45.7	34.3	25.7	25.7
92.5°	27.1	73.2	119.2	130.7	183.7	254.5	289.9	254.0	182.4	128.7	123.6
95°	65.1	149.3	233.5	254.6	452.1	715.6	847.3	756.1	573.6	436.8	421.3
97.5°	112.4	186.7	261.1	279.7	609.0	1048.3	1267.9	1210.2	1094.9	1008.4	978.9
100°	149.0	216.4	283.8	300.7	666.1	1153.5	1397.2	1401.4	1409.8	1416.1	1381.0
102.5°	180.2	243.0	306.0	321.7	692.4	1186.6	1433.7	1507.1	1654.1	1764.2	1734.1
105°	233.0	286.3	339.5	352.8	711.8	1190.4	1429.7	1594.3	1923.6	2170.6	2154.4
107.5°	287.2	336.8	386.5	398.9	715.4	1137.4	1348.4	1578.1	2037.4	2381.9	2385.8
110°	323.7	368.5	413.3	424.6	709.9	1090.4	1280.7	1537.4	2050.9	2436.1	2452.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	359.6	402.4	445.1	455.8	710.2	1049.4	1219.0	1481.8	2007.3	2401.5	2427.4
115°	413.8	453.2	492.7	502.6	716.8	1002.4	1145.2	1398.4	1904.7	2284.4	2320.3
117.5°	467.3	503.2	538.9	547.9	730.1	972.9	1094.4	1322.9	1779.8	2122.5	2162.3
120°	498.5	532.2	565.9	574.3	740.9	963.0	1074.1	1282.8	1700.3	2013.4	2052.2
122.5°	529.0	563.0	597.0	605.5	756.5	957.8	1058.6	1246.6	1622.5	1904.4	1942.5
125°	575.6	606.7	637.6	645.4	777.5	953.6	1041.6	1201.3	1520.7	1760.2	1795.3
127.5°	613.6	644.9	676.2	684.0	798.5	951.1	1027.4	1164.5	1438.8	1644.4	1674.0
130°	633.9	667.6	701.3	709.7	813.8	952.5	1021.9	1144.0	1388.1	1571.2	1598.6
132.5°	654.9	688.6	722.3	730.8	826.3	953.6	1017.2	1126.5	1345.0	1508.9	1533.4
135°	686.0	716.7	747.4	755.1	839.8	952.7	1009.1	1100.6	1283.6	1420.9	1442.0
137.5°	717.9	748.3	778.7	786.3	860.1	958.5	1007.7	1085.1	1239.8	1355.8	1373.1
140°	744.3	772.3	800.3	807.2	872.5	959.5	1003.0	1069.8	1203.5	1303.7	1319.9
142.5°	764.6	790.5	816.4	822.9	882.9	963.0	1003.0	1061.7	1179.1	1267.2	1281.1
145°	795.7	818.3	840.9	846.6	896.5	963.0	996.2	1044.3	1140.3	1212.3	1222.9
147.5°	826.9	848.9	870.9	876.4	916.3	969.6	996.2	1034.0	1109.6	1166.3	1175.0
150°	847.3	867.2	886.9	891.9	926.7	973.0	996.2	1028.1	1092.0	1139.8	1146.9
152.5°	868.2	883.3	898.4	902.1	933.5	975.3	996.2	1023.4	1077.9	1118.8	1124.1
155°	899.4	910.6	921.7	924.4	948.3	980.3	996.2	1017.9	1061.3	1093.8	1097.4
157.5°	922.4	933.3	944.1	946.8	963.2	985.2	996.2	1013.0	1046.8	1072.1	1074.5
160°	938.0	946.4	954.9	957.0	970.1	987.5	996.2	1010.7	1039.6	1061.3	1062.7
162.5°	953.6	959.8	966.2	967.8	977.3	989.9	996.2	1008.4	1032.7	1051.1	1052.5
165°	970.5	976.2	982.0	983.4	987.7	993.3	996.2	1004.9	1022.5	1035.5	1036.9
167.5°	986.1	988.8	991.5	992.2	995.8	1000.6	1003.0	1008.8	1020.2	1028.7	1029.3
170°	996.2	998.9	1001.6	1002.3	1002.6	1002.8	1003.0	1008.8	1020.2	1028.7	1028.7
172.5°	1001.6	1002.2	1002.8	1003.0	1003.0	1003.0	1003.0	1007.5	1016.5	1023.3	1022.8
175°	1009.1	1009.1	1009.1	1009.1	1007.1	1004.4	1003.0	1005.9	1011.6	1015.9	1015.9
177.5°	1009.1	1009.1	1009.1	1009.1	1007.5	1005.4	1004.3	1006.6	1011.1	1014.5	1013.9
180°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	951.0	948.3	951.0	949.2	950.1	947.5	939.5	936.9	939.5	942.1	942.1
5°	962.4	960.5	962.4	962.4	961.5	959.7	951.0	949.2	951.0	951.8	950.1
7.5°	965.9	963.2	965.9	964.1	964.1	962.4	953.6	951.8	952.7	955.3	952.7
10°	965.9	963.2	965.9	965.0	964.1	962.4	953.6	950.1	950.1	952.7	950.1
12.5°	961.5	959.7	961.5	959.7	959.7	957.9	949.2	945.6	946.6	947.5	943.9
15°	954.4	951.8	954.4	952.7	953.6	951.0	941.3	937.8	937.8	939.5	933.4
17.5°	943.9	940.4	943.9	943.0	942.1	940.4	931.6	928.1	927.2	928.1	923.7
20°	931.6	929.0	931.6	930.7	930.7	927.2	918.5	914.1	914.1	914.1	909.7
22.5°	912.3	909.7	912.3	914.1	914.1	913.2	905.3	899.2	897.4	897.4	892.2
25°	890.4	887.8	890.4	890.4	889.6	890.4	887.8	884.2	881.6	879.0	873.8
27.5°	869.3	867.6	869.3	867.6	869.3	866.7	865.8	865.0	861.5	858.9	851.8
30°	848.3	846.6	848.3	846.6	844.8	843.0	838.6	836.9	840.4	838.6	827.2
32.5°	822.0	820.2	822.0	822.0	820.2	820.2	813.2	810.6	811.4	816.7	806.2
35°	794.8	792.2	794.8	793.9	794.8	792.2	787.8	786.9	783.3	789.5	781.6
37.5°	763.2	760.6	763.2	763.2	763.2	764.9	761.5	758.8	753.5	761.5	755.3
40°	730.8	727.3	730.8	729.9	730.8	732.5	730.8	729.0	723.7	729.9	724.6
42.5°	693.9	693.0	693.9	694.7	694.7	698.3	700.9	697.5	695.6	691.3	694.7
45°	654.5	652.6	654.5	656.2	657.1	658.8	666.7	666.7	664.1	657.1	662.3
47.5°	612.3	607.9	612.3	617.6	617.6	620.2	628.1	634.2	629.9	621.1	623.8
50°	567.6	568.5	567.6	571.1	571.1	580.8	586.9	593.0	597.4	586.9	574.6
52.5°	523.7	522.9	523.7	526.4	529.8	534.2	544.8	551.0	557.9	551.8	532.5
55°	479.9	481.6	479.9	480.8	482.5	485.1	500.9	507.1	520.2	512.3	492.2
57.5°	436.0	433.4	436.0	437.8	438.6	441.2	454.4	465.8	473.7	474.6	450.1
60°	385.1	381.6	385.1	393.0	394.8	396.5	408.8	419.4	426.3	429.0	403.6
62.5°	340.4	334.3	340.4	345.7	349.2	353.5	362.3	378.1	384.2	385.1	349.2
65°	293.0	290.4	293.0	303.6	304.4	309.7	319.3	330.8	343.8	342.1	290.4
67.5°	250.0	250.0	250.0	257.1	262.3	264.9	277.2	282.5	299.1	300.9	242.2
70°	210.5	209.6	210.5	215.8	219.3	225.4	236.8	243.0	256.1	260.6	196.5
72.5°	172.8	172.0	172.8	177.2	180.7	186.0	195.6	202.7	214.1	219.3	152.6
75°	139.5	137.7	139.5	143.0	142.1	149.1	157.1	164.0	174.6	178.1	113.2
77.5°	107.0	107.0	107.0	110.6	110.6	117.6	121.0	129.8	136.0	141.3	83.4
80°	79.8	78.9	79.8	80.8	80.8	84.2	90.3	96.5	101.8	101.8	57.0
82.5°	56.2	54.4	56.2	56.2	56.2	57.9	61.4	63.1	66.7	69.3	35.9
85°	35.1	35.1	35.1	35.9	35.1	36.9	37.8	39.5	39.5	37.8	21.9
87.5°	22.8	21.9	22.8	21.9	21.9	21.0	21.0	21.0	20.1	19.3	12.3
90°	25.7	25.7	25.7	25.7	25.7	34.3	45.7	51.5	44.2	29.7	18.9
92.5°	103.1	82.6	103.1	123.6	128.7	182.4	254.0	289.9	254.5	183.7	130.7
95°	359.3	297.3	359.3	421.3	436.8	573.6	756.1	847.3	715.6	452.1	254.6
97.5°	861.0	743.0	861.0	978.9	1008.4	1094.9	1210.2	1267.9	1048.3	609.0	279.7
100°	1240.5	1099.9	1240.5	1381.0	1416.1	1409.8	1401.4	1397.2	1153.5	666.1	300.7
102.5°	1613.7	1493.4	1613.7	1734.1	1764.2	1654.1	1507.1	1433.7	1186.6	692.4	321.7
105°	2089.7	2025.0	2089.7	2154.4	2170.6	1923.6	1594.3	1429.7	1190.4	711.8	352.8
107.5°	2401.4	2417.1	2401.4	2385.8	2381.9	2037.4	1578.1	1348.4	1137.4	715.4	398.9
110°	2520.4	2587.8	2520.4	2452.9	2436.1	2050.9	1537.4	1280.7	1090.4	709.9	424.6





TEST NUMBER: P935438

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2530.9	2634.5	2530.9	2427.4	2401.5	2007.3	1481.8	1219.0	1049.4	710.2	455.8
115°	2463.8	2607.4	2463.8	2320.3	2284.4	1904.7	1398.4	1145.2	1002.4	716.8	502.6
117.5°	2321.5	2480.8	2321.5	2162.3	2122.5	1779.8	1322.9	1094.4	972.9	730.1	547.9
120°	2206.9	2361.6	2206.9	2052.2	2013.4	1700.3	1282.8	1074.1	963.0	740.9	574.3
122.5°	2095.1	2247.8	2095.1	1942.5	1904.4	1622.5	1246.6	1058.6	957.8	756.5	605.5
125°	1935.9	2076.5	1935.9	1795.3	1760.2	1520.7	1201.3	1041.6	953.6	777.5	645.4
127.5°	1792.6	1911.2	1792.6	1674.0	1644.4	1438.8	1164.5	1027.4	951.1	798.5	684.0
130°	1708.2	1817.8	1708.2	1598.6	1571.2	1388.1	1144.0	1021.9	952.5	813.8	709.7
132.5°	1631.6	1729.7	1631.6	1533.4	1508.9	1345.0	1126.5	1017.2	953.6	826.3	730.8
135°	1526.6	1611.2	1526.6	1442.0	1420.9	1283.6	1100.6	1009.1	952.7	839.8	755.1
137.5°	1442.3	1511.6	1442.3	1373.1	1355.8	1239.8	1085.1	1007.7	958.5	860.1	786.3
140°	1384.6	1449.3	1384.6	1319.9	1303.7	1203.5	1069.8	1003.0	959.5	872.5	807.2
142.5°	1336.7	1392.5	1336.7	1281.1	1267.2	1179.1	1061.7	1003.0	963.0	882.9	822.9
145°	1265.0	1307.1	1265.0	1222.9	1212.3	1140.3	1044.3	996.2	963.0	896.5	846.6
147.5°	1209.9	1244.8	1209.9	1175.0	1166.3	1109.6	1034.0	996.2	969.6	916.3	876.4
150°	1175.2	1203.5	1175.2	1146.9	1139.8	1092.0	1028.1	996.2	973.0	926.7	891.9
152.5°	1145.5	1166.9	1145.5	1124.1	1118.8	1077.9	1023.4	996.2	975.3	933.5	902.1
155°	1111.5	1125.6	1111.5	1097.4	1093.8	1061.3	1017.9	996.2	980.3	948.3	924.4
157.5°	1084.5	1094.4	1084.5	1074.5	1072.1	1046.8	1013.0	996.2	985.2	963.2	946.8
160°	1068.4	1074.1	1068.4	1062.7	1061.3	1039.6	1010.7	996.2	987.5	970.1	957.0
162.5°	1057.9	1063.3	1057.9	1052.5	1051.1	1032.7	1008.4	996.2	989.9	977.3	967.8
165°	1042.7	1048.4	1042.7	1036.9	1035.5	1022.5	1004.9	996.2	993.3	987.7	983.4
167.5°	1031.7	1034.1	1031.7	1029.3	1028.7	1020.2	1008.8	1003.0	1000.6	995.8	992.2
170°	1028.7	1028.7	1028.7	1028.7	1028.7	1020.2	1008.8	1003.0	1002.8	1002.6	1002.3
172.5°	1020.7	1018.6	1020.7	1022.8	1023.3	1016.5	1007.5	1003.0	1003.0	1003.0	1003.0
175°	1015.9	1015.9	1015.9	1015.9	1015.9	1011.6	1005.9	1003.0	1004.4	1007.1	1009.1
177.5°	1011.6	1009.1	1011.6	1013.9	1014.5	1011.1	1006.6	1004.3	1005.4	1007.5	1009.1
180°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1



TEST NUMBER: P935438

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	940.4	935.2	935.2	926.4	922.9	920.3	915.8	902.7	899.2	895.7	900.9
5°	948.3	938.7	931.6	915.8	902.7	897.4	880.8	849.2	828.1	812.3	803.6
7.5°	950.1	937.8	924.6	900.0	868.5	854.4	803.6	745.7	729.9	715.9	707.0
10°	948.3	934.3	915.8	879.0	804.5	779.9	729.0	691.3	681.6	679.0	681.6
12.5°	942.1	929.0	903.6	842.1	737.7	721.1	691.3	669.4	667.5	672.0	695.6
15°	931.6	919.4	889.6	793.0	700.9	688.6	667.5	659.7	669.4	700.1	771.1
17.5°	921.1	907.1	870.2	744.8	672.9	664.1	649.1	664.9	719.3	760.6	784.2
20°	907.1	890.4	848.3	709.7	652.6	644.8	637.7	708.8	750.0	764.9	778.1
22.5°	890.4	872.8	818.5	685.2	631.6	625.5	629.9	733.4	750.0	760.6	772.0
25°	868.5	853.5	783.3	665.8	615.0	607.9	624.6	730.8	740.4	743.1	765.8
27.5°	848.3	829.0	746.5	648.3	594.8	592.1	629.0	719.3	726.4	729.0	753.5
30°	823.7	794.8	705.3	629.9	573.7	572.8	629.9	705.3	703.6	710.5	735.1
32.5°	798.3	743.9	658.8	607.0	553.6	552.7	623.8	684.3	682.5	692.1	710.5
35°	774.6	704.4	595.7	580.8	528.1	529.0	608.8	659.7	660.6	669.4	680.7
37.5°	750.0	670.2	526.4	551.8	503.5	503.5	588.6	636.8	635.1	637.7	653.6
40°	721.1	616.7	465.0	514.1	480.8	478.1	564.0	612.3	606.2	605.3	627.3
42.5°	690.4	557.9	419.4	464.1	454.4	450.9	534.2	582.5	571.1	573.7	601.8
45°	657.1	542.1	384.2	392.2	427.2	424.6	501.8	548.2	540.4	547.4	576.3
47.5°	623.8	510.6	372.8	325.4	398.3	397.4	465.8	514.9	510.6	517.6	548.2
50°	578.1	475.4	371.9	279.0	365.8	369.3	422.8	482.5	482.5	488.6	521.1
52.5°	519.3	432.4	337.7	252.6	328.1	338.6	385.1	454.4	456.2	462.4	491.2
55°	465.8	387.7	313.1	232.5	283.3	306.2	348.3	425.5	429.0	435.1	461.4
57.5°	416.7	322.8	307.9	208.8	242.2	264.1	315.9	397.4	399.1	404.4	429.8
60°	364.1	233.4	282.5	183.3	206.1	222.8	285.9	364.1	370.2	373.7	395.6
62.5°	304.4	169.3	256.1	165.8	188.6	192.1	261.4	332.5	340.4	343.0	356.1
65°	216.7	142.1	217.6	150.9	170.2	171.1	235.1	300.0	307.0	311.4	321.1
67.5°	146.5	115.8	165.8	136.8	156.2	157.1	209.6	262.3	272.0	275.5	281.6
70°	101.8	77.2	122.8	121.9	140.4	142.1	182.4	228.1	236.8	239.5	243.0
72.5°	74.6	62.3	101.8	109.6	123.7	125.5	154.4	189.5	198.3	200.9	202.7
75°	57.0	65.8	82.5	95.7	105.3	106.1	126.4	154.4	160.5	162.3	163.2
77.5°	45.6	61.4	60.5	77.2	86.0	84.2	99.2	119.3	124.5	124.5	124.5
80°	34.2	48.2	45.6	55.3	63.1	61.4	71.1	85.1	86.9	88.6	87.7
82.5°	25.5	30.7	30.7	35.1	42.1	40.4	47.4	55.3	55.3	55.3	57.0
85°	15.8	17.5	14.0	18.4	23.7	22.8	26.3	29.8	30.7	30.7	29.0
87.5°	9.7	7.9	4.4	7.0	10.6	10.6	12.3	13.2	12.3	12.3	12.3
90°	17.6	12.2	6.8	12.2	17.6	18.9	29.7	44.2	51.5	45.7	34.3
92.5°	119.2	73.2	27.1	73.2	119.2	130.7	183.7	254.5	289.9	254.0	182.4
95°	233.5	149.3	65.1	149.3	233.5	254.6	452.1	715.6	847.3	756.1	573.6
97.5°	261.1	186.7	112.4	186.7	261.1	279.7	609.0	1048.3	1267.9	1210.2	1094.9
100°	283.8	216.4	149.0	216.4	283.8	300.7	666.1	1153.5	1397.2	1401.4	1409.8
102.5°	306.0	243.0	180.2	243.0	306.0	321.7	692.4	1186.6	1433.7	1507.1	1654.1
105°	339.5	286.3	233.0	286.3	339.5	352.8	711.8	1190.4	1429.7	1594.3	1923.6
107.5°	386.5	336.8	287.2	336.8	386.5	398.9	715.4	1137.4	1348.4	1578.1	2037.4
110°	413.3	368.5	323.7	368.5	413.3	424.6	709.9	1090.4	1280.7	1537.4	2050.9



TEST NUMBER: P935438

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	445.1	402.4	359.6	402.4	445.1	455.8	710.2	1049.4	1219.0	1481.8	2007.3
115°	492.7	453.2	413.8	453.2	492.7	502.6	716.8	1002.4	1145.2	1398.4	1904.7
117.5°	538.9	503.2	467.3	503.2	538.9	547.9	730.1	972.9	1094.4	1322.9	1779.8
120°	565.9	532.2	498.5	532.2	565.9	574.3	740.9	963.0	1074.1	1282.8	1700.3
122.5°	597.0	563.0	529.0	563.0	597.0	605.5	756.5	957.8	1058.6	1246.6	1622.5
125°	637.6	606.7	575.6	606.7	637.6	645.4	777.5	953.6	1041.6	1201.3	1520.7
127.5°	676.2	644.9	613.6	644.9	676.2	684.0	798.5	951.1	1027.4	1164.5	1438.8
130°	701.3	667.6	633.9	667.6	701.3	709.7	813.8	952.5	1021.9	1144.0	1388.1
132.5°	722.3	688.6	654.9	688.6	722.3	730.8	826.3	953.6	1017.2	1126.5	1345.0
135°	747.4	716.7	686.0	716.7	747.4	755.1	839.8	952.7	1009.1	1100.6	1283.6
137.5°	778.7	748.3	717.9	748.3	778.7	786.3	860.1	958.5	1007.7	1085.1	1239.8
140°	800.3	772.3	744.3	772.3	800.3	807.2	872.5	959.5	1003.0	1069.8	1203.5
142.5°	816.4	790.5	764.6	790.5	816.4	822.9	882.9	963.0	1003.0	1061.7	1179.1
145°	840.9	818.3	795.7	818.3	840.9	846.6	896.5	963.0	996.2	1044.3	1140.3
147.5°	870.9	848.9	826.9	848.9	870.9	876.4	916.3	969.6	996.2	1034.0	1109.6
150°	886.9	867.2	847.3	867.2	886.9	891.9	926.7	973.0	996.2	1028.1	1092.0
152.5°	898.4	883.3	868.2	883.3	898.4	902.1	933.5	975.3	996.2	1023.4	1077.9
155°	921.7	910.6	899.4	910.6	921.7	924.4	948.3	980.3	996.2	1017.9	1061.3
157.5°	944.1	933.3	922.4	933.3	944.1	946.8	963.2	985.2	996.2	1013.0	1046.8
160°	954.9	946.4	938.0	946.4	954.9	957.0	970.1	987.5	996.2	1010.7	1039.6
162.5°	966.2	959.8	953.6	959.8	966.2	967.8	977.3	989.9	996.2	1008.4	1032.7
165°	982.0	976.2	970.5	976.2	982.0	983.4	987.7	993.3	996.2	1004.9	1022.5
167.5°	991.5	988.8	986.1	988.8	991.5	992.2	995.8	1000.6	1003.0	1008.8	1020.2
170°	1001.6	998.9	996.2	998.9	1001.6	1002.3	1002.6	1002.8	1003.0	1008.8	1020.2
172.5°	1002.8	1002.2	1001.6	1002.2	1002.8	1003.0	1003.0	1003.0	1003.0	1007.5	1016.5
175°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1007.1	1004.4	1003.0	1005.9	1011.6
177.5°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1007.5	1005.4	1004.3	1006.6	1011.1
180°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1



TEST NUMBER: P935438

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	894.8	892.2	895.7	886.0	895.7	892.2	894.8	900.9	895.7	899.2	902.7
5°	785.2	780.7	766.7	755.3	766.7	780.7	785.2	803.6	812.3	828.1	849.2
7.5°	701.8	698.3	694.7	687.8	694.7	698.3	701.8	707.0	715.9	729.9	745.7
10°	683.4	684.3	689.5	688.6	689.5	684.3	683.4	681.6	679.0	681.6	691.3
12.5°	730.8	738.6	767.6	765.8	767.6	738.6	730.8	695.6	672.0	667.5	669.4
15°	785.2	787.8	793.9	794.8	793.9	787.8	785.2	771.1	700.1	669.4	659.7
17.5°	790.4	791.3	795.6	795.6	795.6	791.3	790.4	784.2	760.6	719.3	664.9
20°	786.1	787.8	796.5	798.3	796.5	787.8	786.1	778.1	764.9	750.0	708.8
22.5°	784.2	787.8	794.8	793.9	794.8	787.8	784.2	772.0	760.6	750.0	733.4
25°	775.5	775.5	776.4	777.2	776.4	775.5	775.5	765.8	743.1	740.4	730.8
27.5°	757.1	758.8	764.1	763.2	764.1	758.8	757.1	753.5	729.0	726.4	719.3
30°	740.4	738.6	734.3	730.8	734.3	738.6	740.4	735.1	710.5	703.6	705.3
32.5°	712.4	707.9	703.6	700.9	703.6	707.9	712.4	710.5	692.1	682.5	684.3
35°	679.0	679.8	679.0	676.3	679.0	679.8	679.0	680.7	669.4	660.6	659.7
37.5°	655.3	657.1	656.2	652.6	656.2	657.1	655.3	653.6	637.7	635.1	636.8
40°	630.7	631.6	630.7	628.1	630.7	631.6	630.7	627.3	605.3	606.2	612.3
42.5°	607.0	606.2	603.5	601.8	603.5	606.2	607.0	601.8	573.7	571.1	582.5
45°	579.9	580.8	575.5	572.8	575.5	580.8	579.9	576.3	547.4	540.4	548.2
47.5°	552.7	552.7	548.2	545.6	548.2	552.7	552.7	548.2	517.6	510.6	514.9
50°	523.7	522.9	516.7	515.8	516.7	522.9	523.7	521.1	488.6	482.5	482.5
52.5°	490.3	490.3	491.2	493.0	491.2	490.3	490.3	491.2	462.4	456.2	454.4
55°	461.4	462.4	468.5	470.2	468.5	462.4	461.4	461.4	435.1	429.0	425.5
57.5°	431.6	431.6	436.0	436.0	436.0	431.6	431.6	429.8	404.4	399.1	397.4
60°	397.4	399.1	402.6	401.7	402.6	399.1	397.4	395.6	373.7	370.2	364.1
62.5°	361.5	363.2	364.1	362.3	364.1	363.2	361.5	356.1	343.0	340.4	332.5
65°	323.7	325.4	326.3	324.6	326.3	325.4	323.7	321.1	311.4	307.0	300.0
67.5°	285.1	284.2	283.3	286.9	283.3	284.2	285.1	281.6	275.5	272.0	262.3
70°	245.7	245.7	244.8	246.5	244.8	245.7	245.7	243.0	239.5	236.8	228.1
72.5°	203.5	202.7	206.1	203.5	206.1	202.7	203.5	202.7	200.9	198.3	189.5
75°	162.3	164.0	162.3	164.9	162.3	164.0	162.3	163.2	162.3	160.5	154.4
77.5°	123.7	125.5	123.7	123.7	123.7	125.5	123.7	124.5	124.5	124.5	119.3
80°	87.7	86.9	86.9	86.0	86.9	86.9	87.7	87.7	88.6	86.9	85.1
82.5°	56.2	55.3	55.3	57.0	55.3	55.3	56.2	57.0	55.3	55.3	55.3
85°	30.7	31.6	29.8	29.8	29.8	31.6	30.7	29.0	30.7	30.7	29.8
87.5°	11.4	10.6	10.6	10.6	10.6	10.6	11.4	12.3	12.3	12.3	13.2
90°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	34.3	45.7	51.5	44.2
92.5°	128.7	123.6	103.1	82.6	103.1	123.6	128.7	182.4	254.0	289.9	254.5
95°	436.8	421.3	359.3	297.3	359.3	421.3	436.8	573.6	756.1	847.3	715.6
97.5°	1008.4	978.9	861.0	743.0	861.0	978.9	1008.4	1094.9	1210.2	1267.9	1048.3
100°	1416.1	1381.0	1240.5	1099.9	1240.5	1381.0	1416.1	1409.8	1401.4	1397.2	1153.5
102.5°	1764.2	1734.1	1613.7	1493.4	1613.7	1734.1	1764.2	1654.1	1507.1	1433.7	1186.6
105°	2170.6	2154.4	2089.7	2025.0	2089.7	2154.4	2170.6	1923.6	1594.3	1429.7	1190.4
107.5°	2381.9	2385.8	2401.4	2417.1	2401.4	2385.8	2381.9	2037.4	1578.1	1348.4	1137.4
110°	2436.1	2452.9	2520.4	2587.8	2520.4	2452.9	2436.1	2050.9	1537.4	1280.7	1090.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2401.5	2427.4	2530.9	2634.5	2530.9	2427.4	2401.5	2007.3	1481.8	1219.0	1049.4
115°	2284.4	2320.3	2463.8	2607.4	2463.8	2320.3	2284.4	1904.7	1398.4	1145.2	1002.4
117.5°	2122.5	2162.3	2321.5	2480.8	2321.5	2162.3	2122.5	1779.8	1322.9	1094.4	972.9
120°	2013.4	2052.2	2206.9	2361.6	2206.9	2052.2	2013.4	1700.3	1282.8	1074.1	963.0
122.5°	1904.4	1942.5	2095.1	2247.8	2095.1	1942.5	1904.4	1622.5	1246.6	1058.6	957.8
125°	1760.2	1795.3	1935.9	2076.5	1935.9	1795.3	1760.2	1520.7	1201.3	1041.6	953.6
127.5°	1644.4	1674.0	1792.6	1911.2	1792.6	1674.0	1644.4	1438.8	1164.5	1027.4	951.1
130°	1571.2	1598.6	1708.2	1817.8	1708.2	1598.6	1571.2	1388.1	1144.0	1021.9	952.5
132.5°	1508.9	1533.4	1631.6	1729.7	1631.6	1533.4	1508.9	1345.0	1126.5	1017.2	953.6
135°	1420.9	1442.0	1526.6	1611.2	1526.6	1442.0	1420.9	1283.6	1100.6	1009.1	952.7
137.5°	1355.8	1373.1	1442.3	1511.6	1442.3	1373.1	1355.8	1239.8	1085.1	1007.7	958.5
140°	1303.7	1319.9	1384.6	1449.3	1384.6	1319.9	1303.7	1203.5	1069.8	1003.0	959.5
142.5°	1267.2	1281.1	1336.7	1392.5	1336.7	1281.1	1267.2	1179.1	1061.7	1003.0	963.0
145°	1212.3	1222.9	1265.0	1307.1	1265.0	1222.9	1212.3	1140.3	1044.3	996.2	963.0
147.5°	1166.3	1175.0	1209.9	1244.8	1209.9	1175.0	1166.3	1109.6	1034.0	996.2	969.6
150°	1139.8	1146.9	1175.2	1203.5	1175.2	1146.9	1139.8	1092.0	1028.1	996.2	973.0
152.5°	1118.8	1124.1	1145.5	1166.9	1145.5	1124.1	1118.8	1077.9	1023.4	996.2	975.3
155°	1093.8	1097.4	1111.5	1125.6	1111.5	1097.4	1093.8	1061.3	1017.9	996.2	980.3
157.5°	1072.1	1074.5	1084.5	1094.4	1084.5	1074.5	1072.1	1046.8	1013.0	996.2	985.2
160°	1061.3	1062.7	1068.4	1074.1	1068.4	1062.7	1061.3	1039.6	1010.7	996.2	987.5
162.5°	1051.1	1052.5	1057.9	1063.3	1057.9	1052.5	1051.1	1032.7	1008.4	996.2	989.9
165°	1035.5	1036.9	1042.7	1048.4	1042.7	1036.9	1035.5	1022.5	1004.9	996.2	993.3
167.5°	1028.7	1029.3	1031.7	1034.1	1031.7	1029.3	1028.7	1020.2	1008.8	1003.0	1000.6
170°	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7	1028.7	1020.2	1008.8	1003.0	1002.8
172.5°	1023.3	1022.8	1020.7	1018.6	1020.7	1022.8	1023.3	1016.5	1007.5	1003.0	1003.0
175°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1011.6	1005.9	1003.0	1004.4
177.5°	1014.5	1013.9	1011.6	1009.1	1011.6	1013.9	1014.5	1011.1	1006.6	1004.3	1005.4
180°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	927.2	927.2	927.2	927.2	927.2
2.5°	915.8	920.3	922.9	926.4	935.2
5°	880.8	897.4	902.7	915.8	931.6
7.5°	803.6	854.4	868.5	900.0	924.6
10°	729.0	779.9	804.5	879.0	915.8
12.5°	691.3	721.1	737.7	842.1	903.6
15°	667.5	688.6	700.9	793.0	889.6
17.5°	649.1	664.1	672.9	744.8	870.2
20°	637.7	644.8	652.6	709.7	848.3
22.5°	629.9	625.5	631.6	685.2	818.5
25°	624.6	607.9	615.0	665.8	783.3
27.5°	629.0	592.1	594.8	648.3	746.5
30°	629.9	572.8	573.7	629.9	705.3
32.5°	623.8	552.7	553.6	607.0	658.8
35°	608.8	529.0	528.1	580.8	595.7
37.5°	588.6	503.5	503.5	551.8	526.4
40°	564.0	478.1	480.8	514.1	465.0
42.5°	534.2	450.9	454.4	464.1	419.4
45°	501.8	424.6	427.2	392.2	384.2
47.5°	465.8	397.4	398.3	325.4	372.8
50°	422.8	369.3	365.8	279.0	371.9
52.5°	385.1	338.6	328.1	252.6	337.7
55°	348.3	306.2	283.3	232.5	313.1
57.5°	315.9	264.1	242.2	208.8	307.9
60°	285.9	222.8	206.1	183.3	282.5
62.5°	261.4	192.1	188.6	165.8	256.1
65°	235.1	171.1	170.2	150.9	217.6
67.5°	209.6	157.1	156.2	136.8	165.8
70°	182.4	142.1	140.4	121.9	122.8
72.5°	154.4	125.5	123.7	109.6	101.8
75°	126.4	106.1	105.3	95.7	82.5
77.5°	99.2	84.2	86.0	77.2	60.5
80°	71.1	61.4	63.1	55.3	45.6
82.5°	47.4	40.4	42.1	35.1	30.7
85°	26.3	22.8	23.7	18.4	14.0
87.5°	12.3	10.6	10.6	7.0	4.4
90°	29.7	18.9	17.6	12.2	6.8
92.5°	183.7	130.7	119.2	73.2	27.1
95°	452.1	254.6	233.5	149.3	65.1
97.5°	609.0	279.7	261.1	186.7	112.4
100°	666.1	300.7	283.8	216.4	149.0
102.5°	692.4	321.7	306.0	243.0	180.2
105°	711.8	352.8	339.5	286.3	233.0
107.5°	715.4	398.9	386.5	336.8	287.2
110°	709.9	424.6	413.3	368.5	323.7



TEST NUMBER: P935438

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	710.2	455.8	445.1	402.4	359.6
115°	716.8	502.6	492.7	453.2	413.8
117.5°	730.1	547.9	538.9	503.2	467.3
120°	740.9	574.3	565.9	532.2	498.5
122.5°	756.5	605.5	597.0	563.0	529.0
125°	777.5	645.4	637.6	606.7	575.6
127.5°	798.5	684.0	676.2	644.9	613.6
130°	813.8	709.7	701.3	667.6	633.9
132.5°	826.3	730.8	722.3	688.6	654.9
135°	839.8	755.1	747.4	716.7	686.0
137.5°	860.1	786.3	778.7	748.3	717.9
140°	872.5	807.2	800.3	772.3	744.3
142.5°	882.9	822.9	816.4	790.5	764.6
145°	896.5	846.6	840.9	818.3	795.7
147.5°	916.3	876.4	870.9	848.9	826.9
150°	926.7	891.9	886.9	867.2	847.3
152.5°	933.5	902.1	898.4	883.3	868.2
155°	948.3	924.4	921.7	910.6	899.4
157.5°	963.2	946.8	944.1	933.3	922.4
160°	970.1	957.0	954.9	946.4	938.0
162.5°	977.3	967.8	966.2	959.8	953.6
165°	987.7	983.4	982.0	976.2	970.5
167.5°	995.8	992.2	991.5	988.8	986.1
170°	1002.6	1002.3	1001.6	998.9	996.2
172.5°	1003.0	1003.0	1002.8	1002.2	1001.6
175°	1007.1	1009.1	1009.1	1009.1	1009.1
177.5°	1007.5	1009.1	1009.1	1009.1	1009.1
180°	1009.1	1009.1	1009.1	1009.1	1009.1



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	8.22	8.90	9.35	10.03	11.59	11.04	11.73	12.17	12.85	14.42
	3H	8.68	9.29	9.82	10.43	12.01	12.37	12.98	13.51	14.12	15.70
	4H	8.86	9.45	10.01	10.58	12.17	12.81	13.39	13.96	14.52	16.11
	6H	8.97	9.51	10.13	10.64	12.24	13.08	13.62	14.24	14.75	16.35
	8H	8.97	9.48	10.13	10.63	12.22	13.15	13.66	14.31	14.81	16.40
	12H	8.93	9.42	10.10	10.56	12.18	13.18	13.66	14.34	14.81	16.42
4H	2H	9.23	9.81	10.38	10.94	12.53	11.43	12.01	12.59	13.14	14.73
	3H	10.24	10.72	11.40	11.88	13.48	12.92	13.40	14.08	14.56	16.16
	4H	10.50	10.95	11.67	12.10	13.72	13.43	13.88	14.60	15.03	16.65
	6H	10.62	11.00	11.79	12.17	13.78	13.79	14.17	14.96	15.34	16.95
	8H	10.62	10.98	11.79	12.14	13.77	13.89	14.25	15.06	15.41	17.03
	12H	10.58	10.90	11.77	12.08	13.71	13.94	14.26	15.12	15.43	17.07
8H	4H	10.94	11.30	12.11	12.46	14.09	13.55	13.90	14.71	15.06	16.69
	6H	11.20	11.49	12.39	12.70	14.32	13.97	14.27	15.16	15.47	17.09
	8H	11.24	11.49	12.43	12.68	14.32	14.12	14.38	15.32	15.56	17.20
	12H	11.21	11.44	12.41	12.62	14.29	14.21	14.44	15.41	15.62	17.29
12H	4H	10.94	11.26	12.13	12.44	14.07	13.50	13.83	14.69	15.00	16.63
	6H	11.26	11.51	12.45	12.69	14.34	13.97	14.23	15.16	15.41	17.05
	8H	11.31	11.54	12.51	12.72	14.39	14.12	14.35	15.32	15.53	17.20