

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: P934735

Luminaire Tested: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

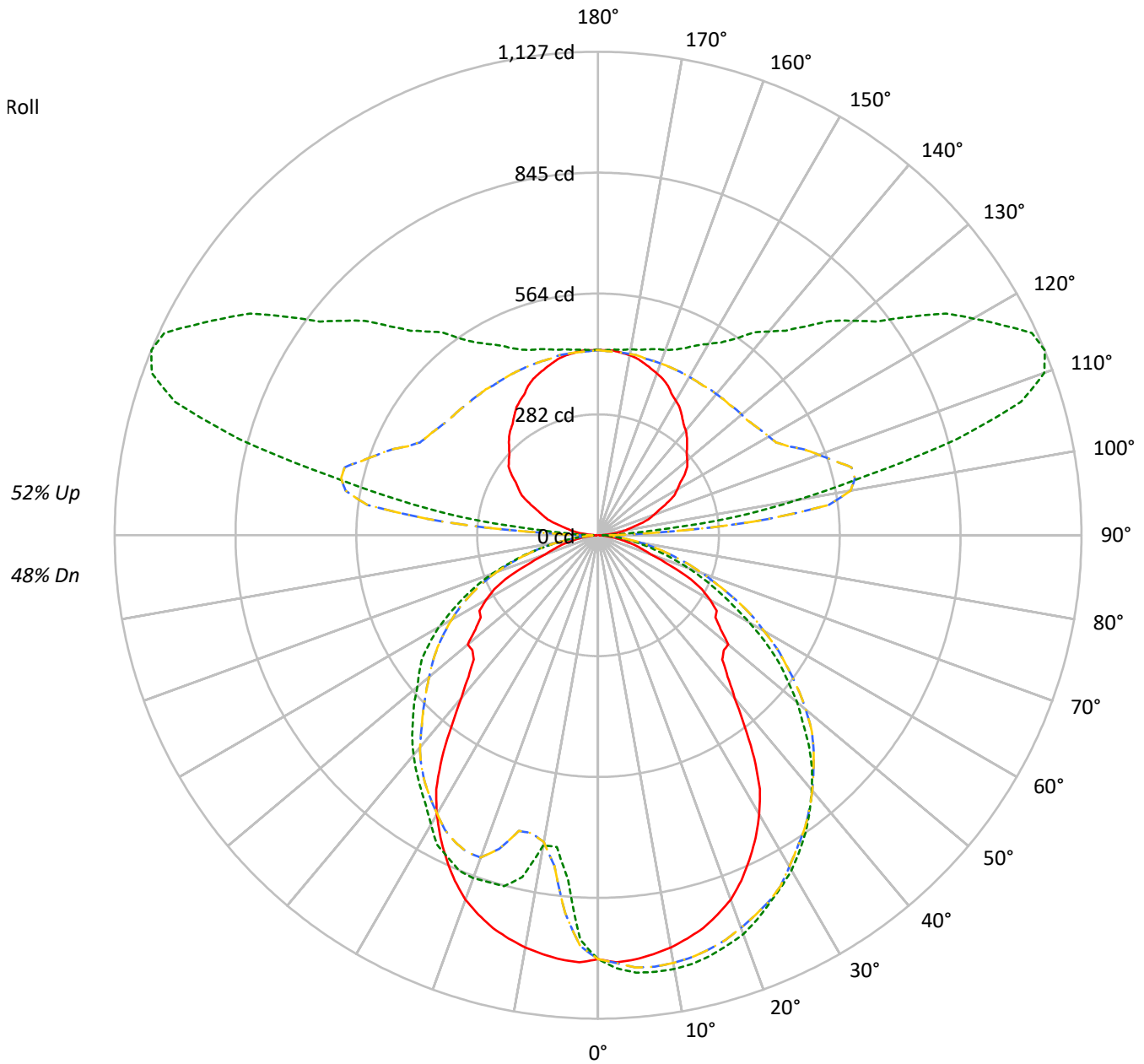
Test Method: LM-79-2019  
Report Number: P934735  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5362.4 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 42.4  
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

TEST NUMBER: P934735  
CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-5000K

### 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	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	9169	9169	9169	9169
5°	9227	9256	9227	7278
10°	9155	9118	9155	6518
15°	9045	8920	9045	7448
20°	8846	8685	8846	7464
25°	8449	8344	8449	7305
30°	7939	8061	7939	6958
35°	7067	7702	7067	6577
40°	5879	7281	5879	6288
45°	5243	6787	5243	5957
50°	5557	6198	5557	5624
55°	5214	5563	5214	5432
60°	5354	4725	5354	4975
65°	4831	3905	4831	4366
70°	3323	3112	3323	3660
75°	2882	2300	2882	2754
80°	2275	1521	2275	1656
85°	1242	806	1242	685

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8050 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	1.7
10°-20°	253.2	4.7
20°-30°	391.5	7.3
30°-40°	467.3	8.7
40°-50°	470.1	8.8
50°-60°	409.0	7.6
60°-70°	290.0	5.4
70°-80°	153.4	2.9
80°-90°	39.9	0.7
90°-100°	210.4	3.9
100°-110°	553.3	10.3
110°-120°	573.7	10.7
120°-130°	460.2	8.6
130°-140°	361.1	6.7
140°-150°	277.1	5.2
150°-160°	199.6	3.7
160°-170°	122.1	2.3
170°-180°	41.3	0.8
0°-30°	733.9	13.7
0°-40°	1201.2	22.4
0°-60°	2080.4	38.8
0°-90°	2563.7	47.8
90°-120°	1337.4	24.9
90°-150°	2435.8	45.4
90°-180°	2799.0	52.2
0°-180°	5362.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	988	988	988	988	988	
5°	993	1024	993	805	993	94
15°	948	1014	948	847	948	267
25°	835	946	835	828	835	383
35°	635	844	635	721	635	393
45°	410	696	410	610	410	328
55°	334	513	334	501	334	307
65°	232	309	232	346	232	222
75°	88	147	88	176	88	92
85°	15	37	15	32	15	20
90°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	866	100	866	100	106
115°	177	1116	177	1116	177	175
125°	246	888	246	888	246	219
135°	294	689	294	689	294	227
145°	340	559	340	559	340	213
155°	385	482	385	482	385	177
165°	415	449	415	449	415	117
175°	432	435	432	435	432	41
180°	432	432	432	432	432	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	996.5	996.5	1002.2	1004.1	1004.1	1001.3	998.5	1001.3	1009.7	1012.5	1011.5
5°	992.8	1000.3	1010.6	1012.5	1014.3	1013.4	1011.5	1013.4	1022.8	1024.6	1025.6
7.5°	985.3	999.4	1012.5	1015.3	1018.1	1015.3	1014.3	1016.2	1025.6	1027.4	1027.4
10°	975.9	995.6	1010.6	1012.5	1015.3	1012.5	1012.5	1016.2	1025.6	1027.4	1028.4
12.5°	962.8	989.9	1004.1	1005.9	1009.7	1008.7	1007.8	1011.5	1020.9	1022.8	1022.8
15°	947.9	979.7	992.8	994.6	1001.3	999.4	999.4	1003.1	1013.4	1016.2	1015.3
17.5°	927.3	966.6	981.5	984.3	989.0	988.1	989.0	992.8	1002.2	1004.1	1005.0
20°	904.0	948.8	966.6	969.4	974.1	974.1	974.1	978.7	988.1	991.8	991.8
22.5°	872.2	930.1	948.8	950.7	956.3	956.3	958.2	964.7	973.1	974.1	974.1
25°	834.8	909.6	925.5	931.1	936.7	939.5	942.3	946.0	948.8	947.9	948.8
27.5°	795.5	883.4	904.0	907.7	915.2	918.0	921.7	922.6	923.6	926.4	924.5
30°	751.6	846.9	877.8	881.5	893.7	895.5	891.8	893.7	898.3	900.2	902.1
32.5°	702.1	792.7	850.7	859.1	870.3	864.7	863.8	866.6	874.0	874.0	875.9
35°	634.8	750.7	825.4	832.9	841.3	834.8	838.5	839.5	844.1	846.9	846.0
37.5°	560.9	714.2	799.3	804.9	811.4	803.0	808.6	811.4	815.2	813.3	813.3
40°	495.5	657.2	768.4	772.2	777.8	771.2	776.8	778.7	780.6	778.7	777.8
42.5°	446.9	594.6	735.7	740.4	736.6	741.3	743.2	746.9	744.1	740.4	740.4
45°	409.5	577.7	700.2	705.8	700.2	707.7	710.5	710.5	702.1	700.2	699.3
47.5°	397.3	544.1	664.7	664.7	661.9	671.2	675.9	669.3	660.9	658.1	658.1
50°	396.4	506.7	616.1	612.3	625.4	636.6	632.0	625.4	618.9	608.6	608.6
52.5°	360.0	460.9	553.4	567.5	588.0	594.6	587.1	580.5	569.3	564.7	560.9
55°	333.8	413.2	496.4	524.5	546.0	554.4	540.4	533.8	517.0	514.2	512.3
57.5°	328.1	344.1	444.1	479.6	505.8	504.8	496.4	484.3	470.3	467.4	466.5
60°	301.0	248.6	388.0	430.1	457.2	454.4	446.9	435.7	422.6	420.7	418.8
62.5°	272.9	180.4	324.3	372.1	410.4	409.5	403.0	386.1	376.8	372.1	368.4
65°	231.8	151.4	230.9	309.4	364.6	366.5	352.5	340.3	330.0	324.3	323.4
67.5°	176.7	123.4	156.1	258.0	320.6	318.7	301.0	295.4	282.3	279.5	273.9
70°	130.9	82.3	108.4	209.4	277.6	272.9	258.9	252.4	240.2	233.7	229.9
72.5°	108.4	66.4	79.5	162.6	233.7	228.1	215.9	208.4	198.2	192.5	188.8
75°	87.9	70.1	60.8	120.6	189.7	186.0	174.8	167.3	158.9	151.4	152.4
77.5°	64.5	65.4	48.6	88.8	150.5	144.9	138.3	129.0	125.3	117.8	117.8
80°	48.6	51.4	36.5	60.8	108.4	108.4	102.8	96.3	89.7	86.0	86.0
82.5°	32.7	32.7	27.1	38.3	73.8	71.0	67.3	65.4	61.7	59.8	59.8
85°	15.0	18.7	16.8	23.4	40.2	42.1	42.1	40.2	39.3	37.4	38.3
87.5°	4.7	8.4	10.3	13.1	20.6	21.5	22.4	22.4	22.4	23.4	23.4
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.6	108.9	124.0	108.7	78.0	55.1	52.9
95°	27.9	63.9	100.0	109.0	193.5	306.1	362.5	323.4	245.4	186.8	180.2
97.5°	48.1	79.9	111.7	119.6	260.6	448.5	542.4	517.7	468.5	431.5	418.8
100°	63.7	92.5	121.4	128.6	285.0	493.5	597.7	599.5	603.2	605.9	590.8
102.5°	77.1	104.0	130.9	137.6	296.2	507.7	613.4	644.9	707.7	754.8	741.9
105°	99.6	122.4	145.3	151.0	304.5	509.3	611.7	682.1	823.0	928.6	921.7
107.5°	122.8	144.1	165.3	170.7	306.1	486.6	576.9	675.1	871.6	1019.0	1020.7
110°	138.5	157.7	176.9	181.7	303.8	466.5	547.9	657.8	877.4	1042.2	1049.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.9	172.2	190.4	195.0	303.9	449.0	521.6	634.0	858.8	1027.4	1038.6
115°	177.0	193.9	210.8	215.0	306.7	428.8	490.0	598.3	814.9	977.3	992.7
117.5°	199.9	215.3	230.6	234.4	312.4	416.2	468.2	566.0	761.4	908.1	925.1
120°	213.3	227.7	242.1	245.7	317.0	412.0	459.5	548.9	727.5	861.4	878.0
122.5°	226.3	240.9	255.4	259.0	323.6	409.8	452.9	533.2	694.1	814.8	831.1
125°	246.3	259.6	272.8	276.1	332.7	408.0	445.7	514.0	650.6	753.1	768.1
127.5°	262.6	275.9	289.3	292.7	341.6	407.0	439.6	498.3	615.6	703.6	716.3
130°	271.3	285.6	300.0	303.7	348.2	407.5	437.3	489.5	593.9	672.2	683.9
132.5°	280.2	294.6	309.0	312.7	353.5	408.0	435.2	481.9	575.5	645.6	656.1
135°	293.5	306.6	319.8	323.0	359.3	407.6	431.7	470.9	549.2	607.9	617.0
137.5°	307.1	320.1	333.1	336.4	368.0	410.1	431.2	464.3	530.4	580.1	587.5
140°	318.5	330.4	342.4	345.4	373.3	410.5	429.1	457.7	514.8	557.7	564.7
142.5°	327.1	338.2	349.2	352.0	377.7	412.0	429.1	454.3	504.5	542.1	548.1
145°	340.4	350.1	359.8	362.2	383.5	412.0	426.2	446.8	487.8	518.7	523.2
147.5°	353.8	363.1	372.6	374.9	392.0	414.8	426.2	442.4	474.7	498.9	502.7
150°	362.5	371.0	379.5	381.6	396.5	416.3	426.2	439.9	467.2	487.6	490.6
152.5°	371.5	377.9	384.4	385.9	399.4	417.3	426.2	437.9	461.2	478.7	480.9
155°	384.8	389.6	394.3	395.5	405.8	419.4	426.2	435.5	454.0	467.9	469.4
157.5°	394.6	399.3	404.0	405.1	412.1	421.6	426.2	433.4	447.8	458.7	459.7
160°	401.3	404.9	408.5	409.4	415.0	422.5	426.2	432.4	444.8	454.1	454.6
162.5°	408.0	410.7	413.4	414.1	418.1	423.5	426.2	431.5	441.8	449.7	450.2
165°	415.2	417.6	420.1	420.7	422.6	425.0	426.2	430.0	437.4	443.1	443.7
167.5°	421.8	423.0	424.2	424.4	426.0	428.1	429.1	431.6	436.5	440.2	440.4
170°	426.2	427.3	428.6	428.8	428.9	429.0	429.1	431.6	436.5	440.2	440.2
172.5°	428.6	428.8	429.0	429.1	429.1	429.1	429.1	431.1	434.9	437.8	437.6
175°	431.7	431.7	431.7	431.7	430.9	429.7	429.1	430.3	432.8	434.6	434.6
177.5°	431.7	431.7	431.7	431.7	431.1	430.2	429.7	430.6	432.6	434.1	433.8
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	1013.4	1010.6	1013.4	1011.5	1012.5	1009.7	1001.3	998.5	1001.3	1004.1	1004.1
5°	1025.6	1023.7	1025.6	1025.6	1024.6	1022.8	1013.4	1011.5	1013.4	1014.3	1012.5
7.5°	1029.3	1026.5	1029.3	1027.4	1027.4	1025.6	1016.2	1014.3	1015.3	1018.1	1015.3
10°	1029.3	1026.5	1029.3	1028.4	1027.4	1025.6	1016.2	1012.5	1012.5	1015.3	1012.5
12.5°	1024.6	1022.8	1024.6	1022.8	1022.8	1020.9	1011.5	1007.8	1008.7	1009.7	1005.9
15°	1017.1	1014.3	1017.1	1015.3	1016.2	1013.4	1003.1	999.4	999.4	1001.3	994.6
17.5°	1005.9	1002.2	1005.9	1005.0	1004.1	1002.2	992.8	989.0	988.1	989.0	984.3
20°	992.8	989.9	992.8	991.8	991.8	988.1	978.7	974.1	974.1	974.1	969.4
22.5°	972.2	969.4	972.2	974.1	974.1	973.1	964.7	958.2	956.3	956.3	950.7
25°	948.8	946.0	948.8	948.8	947.9	948.8	946.0	942.3	939.5	936.7	931.1
27.5°	926.4	924.5	926.4	924.5	926.4	923.6	922.6	921.7	918.0	915.2	907.7
30°	904.0	902.1	904.0	902.1	900.2	898.3	893.7	891.8	895.5	893.7	881.5
32.5°	875.9	874.0	875.9	875.9	874.0	874.0	866.6	863.8	864.7	870.3	859.1
35°	846.9	844.1	846.9	846.0	846.9	844.1	839.5	838.5	834.8	841.3	832.9
37.5°	813.3	810.5	813.3	813.3	813.3	815.2	811.4	808.6	803.0	811.4	804.9
40°	778.7	775.0	778.7	777.8	778.7	780.6	778.7	776.8	771.2	777.8	772.2
42.5°	739.4	738.5	739.4	740.4	740.4	744.1	746.9	743.2	741.3	736.6	740.4
45°	697.4	695.5	697.4	699.3	700.2	702.1	710.5	710.5	707.7	700.2	705.8
47.5°	652.5	647.8	652.5	658.1	658.1	660.9	669.3	675.9	671.2	661.9	664.7
50°	604.8	605.8	604.8	608.6	608.6	618.9	625.4	632.0	636.6	625.4	612.3
52.5°	558.1	557.2	558.1	560.9	564.7	569.3	580.5	587.1	594.6	588.0	567.5
55°	511.4	513.2	511.4	512.3	514.2	517.0	533.8	540.4	554.4	546.0	524.5
57.5°	464.6	461.8	464.6	466.5	467.4	470.3	484.3	496.4	504.8	505.8	479.6
60°	410.4	406.7	410.4	418.8	420.7	422.6	435.7	446.9	454.4	457.2	430.1
62.5°	362.8	356.2	362.8	368.4	372.1	376.8	386.1	403.0	409.5	410.4	372.1
65°	312.2	309.4	312.2	323.4	324.3	330.0	340.3	352.5	366.5	364.6	309.4
67.5°	266.4	266.4	266.4	273.9	279.5	282.3	295.4	301.0	318.7	320.6	258.0
70°	224.3	223.4	224.3	229.9	233.7	240.2	252.4	258.9	272.9	277.6	209.4
72.5°	184.1	183.2	184.1	188.8	192.5	198.2	208.4	215.9	228.1	233.7	162.6
75°	148.6	146.7	148.6	152.4	151.4	158.9	167.3	174.8	186.0	189.7	120.6
77.5°	114.0	114.0	114.0	117.8	117.8	125.3	129.0	138.3	144.9	150.5	88.8
80°	85.1	84.1	85.1	86.0	86.0	89.7	96.3	102.8	108.4	108.4	60.8
82.5°	59.8	58.0	59.8	59.8	59.8	61.7	65.4	67.3	71.0	73.8	38.3
85°	37.4	37.4	37.4	38.3	37.4	39.3	40.2	42.1	42.1	40.2	23.4
87.5°	24.3	23.4	24.3	23.4	23.4	22.4	22.4	22.4	21.5	20.6	13.1
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.1	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.1	78.0	108.7	124.0	108.9	78.6	55.9
95°	153.8	127.2	153.8	180.2	186.8	245.4	323.4	362.5	306.1	193.5	109.0
97.5°	368.4	317.9	368.4	418.8	431.5	468.5	517.7	542.4	448.5	260.6	119.6
100°	530.7	470.5	530.7	590.8	605.9	603.2	599.5	597.7	493.5	285.0	128.6
102.5°	690.4	638.9	690.4	741.9	754.8	707.7	644.9	613.4	507.7	296.2	137.6
105°	894.0	866.4	894.0	921.7	928.6	823.0	682.1	611.7	509.3	304.5	151.0
107.5°	1027.4	1034.2	1027.4	1020.7	1019.0	871.6	675.1	576.9	486.6	306.1	170.7
110°	1078.3	1107.2	1078.3	1049.4	1042.2	877.4	657.8	547.9	466.5	303.8	181.7





TEST NUMBER: P934735

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1082.9	1127.2	1082.9	1038.6	1027.4	858.8	634.0	521.6	449.0	303.9	195.0
115°	1054.2	1115.6	1054.2	992.7	977.3	814.9	598.3	490.0	428.8	306.7	215.0
117.5°	993.2	1061.4	993.2	925.1	908.1	761.4	566.0	468.2	416.2	312.4	234.4
120°	944.1	1010.3	944.1	878.0	861.4	727.5	548.9	459.5	412.0	317.0	245.7
122.5°	896.4	961.7	896.4	831.1	814.8	694.1	533.2	452.9	409.8	323.6	259.0
125°	828.2	888.3	828.2	768.1	753.1	650.6	514.0	445.7	408.0	332.7	276.1
127.5°	766.9	817.7	766.9	716.3	703.6	615.6	498.3	439.6	407.0	341.6	292.7
130°	730.8	777.7	730.8	683.9	672.2	593.9	489.5	437.3	407.5	348.2	303.7
132.5°	698.0	740.0	698.0	656.1	645.6	575.5	481.9	435.2	408.0	353.5	312.7
135°	653.2	689.3	653.2	617.0	607.9	549.2	470.9	431.7	407.6	359.3	323.0
137.5°	617.1	646.7	617.1	587.5	580.1	530.4	464.3	431.2	410.1	368.0	336.4
140°	592.4	620.1	592.4	564.7	557.7	514.8	457.7	429.1	410.5	373.3	345.4
142.5°	571.9	595.7	571.9	548.1	542.1	504.5	454.3	429.1	412.0	377.7	352.0
145°	541.2	559.2	541.2	523.2	518.7	487.8	446.8	426.2	412.0	383.5	362.2
147.5°	517.6	532.6	517.6	502.7	498.9	474.7	442.4	426.2	414.8	392.0	374.9
150°	502.8	514.9	502.8	490.6	487.6	467.2	439.9	426.2	416.3	396.5	381.6
152.5°	490.1	499.2	490.1	480.9	478.7	461.2	437.9	426.2	417.3	399.4	385.9
155°	475.5	481.6	475.5	469.4	467.9	454.0	435.5	426.2	419.4	405.8	395.5
157.5°	464.0	468.2	464.0	459.7	458.7	447.8	433.4	426.2	421.6	412.1	405.1
160°	457.1	459.5	457.1	454.6	454.1	444.8	432.4	426.2	422.5	415.0	409.4
162.5°	452.6	454.9	452.6	450.2	449.7	441.8	431.5	426.2	423.5	418.1	414.1
165°	446.1	448.6	446.1	443.7	443.1	437.4	430.0	426.2	425.0	422.6	420.7
167.5°	441.5	442.5	441.5	440.4	440.2	436.5	431.6	429.1	428.1	426.0	424.4
170°	440.2	440.2	440.2	440.2	440.2	436.5	431.6	429.1	429.0	428.9	428.8
172.5°	436.7	435.8	436.7	437.6	437.8	434.9	431.1	429.1	429.1	429.1	429.1
175°	434.6	434.6	434.6	434.6	434.6	432.8	430.3	429.1	429.7	430.9	431.7
177.5°	432.8	431.7	432.8	433.8	434.1	432.6	430.6	429.7	430.2	431.1	431.7
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934735

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	1002.2	996.5	996.5	987.1	983.4	980.6	975.9	961.9	958.2	954.4	960.0
5°	1010.6	1000.3	992.8	975.9	961.9	956.3	938.5	904.9	882.5	865.6	856.3
7.5°	1012.5	999.4	985.3	959.1	925.5	910.5	856.3	794.6	777.8	762.8	753.5
10°	1010.6	995.6	975.9	936.7	857.2	831.0	776.8	736.6	726.4	723.6	726.4
12.5°	1004.1	989.9	962.8	897.4	786.2	768.4	736.6	713.3	711.4	716.1	741.3
15°	992.8	979.7	947.9	845.1	746.9	733.8	711.4	703.0	713.3	746.0	821.7
17.5°	981.5	966.6	927.3	793.7	717.0	707.7	691.8	708.6	766.6	810.5	835.7
20°	966.6	948.8	904.0	756.3	695.5	687.1	679.6	755.3	799.3	815.2	829.2
22.5°	948.8	930.1	872.2	730.1	673.1	666.5	671.2	781.5	799.3	810.5	822.6
25°	925.5	909.6	834.8	709.5	655.3	647.8	665.6	778.7	789.0	791.8	816.1
27.5°	904.0	883.4	795.5	690.8	633.8	631.0	670.3	766.6	774.0	776.8	803.0
30°	877.8	846.9	751.6	671.2	611.4	610.5	671.2	751.6	749.7	757.2	783.4
32.5°	850.7	792.7	702.1	646.9	589.9	589.0	664.7	729.2	727.3	737.6	757.2
35°	825.4	750.7	634.8	618.9	562.8	563.7	648.8	703.0	703.9	713.3	725.4
37.5°	799.3	714.2	560.9	588.0	536.6	536.6	627.3	678.7	676.8	679.6	696.4
40°	768.4	657.2	495.5	547.8	512.3	509.5	601.1	652.5	646.0	645.0	668.4
42.5°	735.7	594.6	446.9	494.6	484.3	480.5	569.3	620.7	608.6	611.4	641.3
45°	700.2	577.7	409.5	417.9	455.3	452.5	534.7	584.3	575.9	583.4	614.2
47.5°	664.7	544.1	397.3	346.9	424.4	423.5	496.4	548.8	544.1	551.6	584.3
50°	616.1	506.7	396.4	297.2	389.9	393.6	450.6	514.2	514.2	520.7	555.3
52.5°	553.4	460.9	360.0	269.2	349.7	360.9	410.4	484.3	486.1	492.7	523.5
55°	496.4	413.2	333.8	247.7	301.9	326.2	371.2	453.4	457.2	463.7	491.7
57.5°	444.1	344.1	328.1	222.5	258.0	281.3	336.6	423.5	425.4	431.0	458.1
60°	388.0	248.6	301.0	195.4	219.7	237.4	304.7	388.0	394.5	398.3	421.6
62.5°	324.3	180.4	272.9	176.7	201.0	204.7	278.5	354.3	362.8	365.6	379.6
65°	230.9	151.4	231.8	160.8	181.3	182.3	250.5	319.7	327.1	331.8	342.2
67.5°	156.1	123.4	176.7	145.8	166.4	167.3	223.4	279.5	289.8	293.5	300.0
70°	108.4	82.3	130.9	129.9	149.6	151.4	194.4	243.0	252.4	255.2	258.9
72.5°	79.5	66.4	108.4	116.8	131.8	133.7	164.5	201.9	211.2	214.0	215.9
75°	60.8	70.1	87.9	101.9	112.2	113.1	134.6	164.5	171.1	172.9	173.9
77.5°	48.6	65.4	64.5	82.3	91.6	89.7	105.6	127.1	132.7	132.7	132.7
80°	36.5	51.4	48.6	58.9	67.3	65.4	75.7	90.7	92.5	94.4	93.5
82.5°	27.1	32.7	32.7	37.4	44.9	43.0	50.5	58.9	58.9	58.9	60.8
85°	16.8	18.7	15.0	19.6	25.2	24.3	28.0	31.8	32.7	32.7	30.8
87.5°	10.3	8.4	4.7	7.5	11.2	11.2	13.1	14.0	13.1	13.1	13.1
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.6	108.9	124.0	108.7	78.0
95°	100.0	63.9	27.9	63.9	100.0	109.0	193.5	306.1	362.5	323.4	245.4
97.5°	111.7	79.9	48.1	79.9	111.7	119.6	260.6	448.5	542.4	517.7	468.5
100°	121.4	92.5	63.7	92.5	121.4	128.6	285.0	493.5	597.7	599.5	603.2
102.5°	130.9	104.0	77.1	104.0	130.9	137.6	296.2	507.7	613.4	644.9	707.7
105°	145.3	122.4	99.6	122.4	145.3	151.0	304.5	509.3	611.7	682.1	823.0
107.5°	165.3	144.1	122.8	144.1	165.3	170.7	306.1	486.6	576.9	675.1	871.6
110°	176.9	157.7	138.5	157.7	176.9	181.7	303.8	466.5	547.9	657.8	877.4



TEST NUMBER: P934735

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	190.4	172.2	153.9	172.2	190.4	195.0	303.9	449.0	521.6	634.0	858.8
115°	210.8	193.9	177.0	193.9	210.8	215.0	306.7	428.8	490.0	598.3	814.9
117.5°	230.6	215.3	199.9	215.3	230.6	234.4	312.4	416.2	468.2	566.0	761.4
120°	242.1	227.7	213.3	227.7	242.1	245.7	317.0	412.0	459.5	548.9	727.5
122.5°	255.4	240.9	226.3	240.9	255.4	259.0	323.6	409.8	452.9	533.2	694.1
125°	272.8	259.6	246.3	259.6	272.8	276.1	332.7	408.0	445.7	514.0	650.6
127.5°	289.3	275.9	262.6	275.9	289.3	292.7	341.6	407.0	439.6	498.3	615.6
130°	300.0	285.6	271.3	285.6	300.0	303.7	348.2	407.5	437.3	489.5	593.9
132.5°	309.0	294.6	280.2	294.6	309.0	312.7	353.5	408.0	435.2	481.9	575.5
135°	319.8	306.6	293.5	306.6	319.8	323.0	359.3	407.6	431.7	470.9	549.2
137.5°	333.1	320.1	307.1	320.1	333.1	336.4	368.0	410.1	431.2	464.3	530.4
140°	342.4	330.4	318.5	330.4	342.4	345.4	373.3	410.5	429.1	457.7	514.8
142.5°	349.2	338.2	327.1	338.2	349.2	352.0	377.7	412.0	429.1	454.3	504.5
145°	359.8	350.1	340.4	350.1	359.8	362.2	383.5	412.0	426.2	446.8	487.8
147.5°	372.6	363.1	353.8	363.1	372.6	374.9	392.0	414.8	426.2	442.4	474.7
150°	379.5	371.0	362.5	371.0	379.5	381.6	396.5	416.3	426.2	439.9	467.2
152.5°	384.4	377.9	371.5	377.9	384.4	385.9	399.4	417.3	426.2	437.9	461.2
155°	394.3	389.6	384.8	389.6	394.3	395.5	405.8	419.4	426.2	435.5	454.0
157.5°	404.0	399.3	394.6	399.3	404.0	405.1	412.1	421.6	426.2	433.4	447.8
160°	408.5	404.9	401.3	404.9	408.5	409.4	415.0	422.5	426.2	432.4	444.8
162.5°	413.4	410.7	408.0	410.7	413.4	414.1	418.1	423.5	426.2	431.5	441.8
165°	420.1	417.6	415.2	417.6	420.1	420.7	422.6	425.0	426.2	430.0	437.4
167.5°	424.2	423.0	421.8	423.0	424.2	424.4	426.0	428.1	429.1	431.6	436.5
170°	428.6	427.3	426.2	427.3	428.6	428.8	428.9	429.0	429.1	431.6	436.5
172.5°	429.0	428.8	428.6	428.8	429.0	429.1	429.1	429.1	429.1	431.1	434.9
175°	431.7	431.7	431.7	431.7	431.7	431.7	430.9	429.7	429.1	430.3	432.8
177.5°	431.7	431.7	431.7	431.7	431.7	431.7	431.1	430.2	429.7	430.6	432.6
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934735

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	953.5	950.7	954.4	944.1	954.4	950.7	953.5	960.0	954.4	958.2	961.9
5°	836.7	832.0	817.0	804.9	817.0	832.0	836.7	856.3	865.6	882.5	904.9
7.5°	747.9	744.1	740.4	732.9	740.4	744.1	747.9	753.5	762.8	777.8	794.6
10°	728.2	729.2	734.8	733.8	734.8	729.2	728.2	726.4	723.6	726.4	736.6
12.5°	778.7	787.1	818.0	816.1	818.0	787.1	778.7	741.3	716.1	711.4	713.3
15°	836.7	839.5	846.0	846.9	846.0	839.5	836.7	821.7	746.0	713.3	703.0
17.5°	842.3	843.2	847.9	847.9	847.9	843.2	842.3	835.7	810.5	766.6	708.6
20°	837.6	839.5	848.8	850.7	848.8	839.5	837.6	829.2	815.2	799.3	755.3
22.5°	835.7	839.5	846.9	846.0	846.9	839.5	835.7	822.6	810.5	799.3	781.5
25°	826.4	826.4	827.3	828.2	827.3	826.4	826.4	816.1	791.8	789.0	778.7
27.5°	806.7	808.6	814.2	813.3	814.2	808.6	806.7	803.0	776.8	774.0	766.6
30°	789.0	787.1	782.4	778.7	782.4	787.1	789.0	783.4	757.2	749.7	751.6
32.5°	759.1	754.4	749.7	746.9	749.7	754.4	759.1	757.2	737.6	727.3	729.2
35°	723.6	724.5	723.6	720.8	723.6	724.5	723.6	725.4	713.3	703.9	703.0
37.5°	698.3	700.2	699.3	695.5	699.3	700.2	698.3	696.4	679.6	676.8	678.7
40°	672.1	673.1	672.1	669.3	672.1	673.1	672.1	668.4	645.0	646.0	652.5
42.5°	646.9	646.0	643.2	641.3	643.2	646.0	646.9	641.3	611.4	608.6	620.7
45°	617.9	618.9	613.3	610.5	613.3	618.9	617.9	614.2	583.4	575.9	584.3
47.5°	589.0	589.0	584.3	581.5	584.3	589.0	589.0	584.3	551.6	544.1	548.8
50°	558.1	557.2	550.6	549.7	550.6	557.2	558.1	555.3	520.7	514.2	514.2
52.5°	522.6	522.6	523.5	525.4	523.5	522.6	522.6	523.5	492.7	486.1	484.3
55°	491.7	492.7	499.2	501.1	499.2	492.7	491.7	491.7	463.7	457.2	453.4
57.5°	460.0	460.0	464.6	464.6	464.6	460.0	460.0	458.1	431.0	425.4	423.5
60°	423.5	425.4	429.1	428.2	429.1	425.4	423.5	421.6	398.3	394.5	388.0
62.5°	385.2	387.1	388.0	386.1	388.0	387.1	385.2	379.6	365.6	362.8	354.3
65°	345.0	346.9	347.8	345.9	347.8	346.9	345.0	342.2	331.8	327.1	319.7
67.5°	303.8	302.8	301.9	305.6	301.9	302.8	303.8	300.0	293.5	289.8	279.5
70°	261.7	261.7	260.8	262.7	260.8	261.7	261.7	258.9	255.2	252.4	243.0
72.5°	216.9	215.9	219.7	216.9	219.7	215.9	216.9	215.9	214.0	211.2	201.9
75°	172.9	174.8	172.9	175.7	172.9	174.8	172.9	173.9	172.9	171.1	164.5
77.5°	131.8	133.7	131.8	131.8	131.8	133.7	131.8	132.7	132.7	132.7	127.1
80°	93.5	92.5	92.5	91.6	92.5	92.5	93.5	93.5	94.4	92.5	90.7
82.5°	59.8	58.9	58.9	60.8	58.9	58.9	59.8	60.8	58.9	58.9	58.9
85°	32.7	33.6	31.8	31.8	31.8	33.6	32.7	30.8	32.7	32.7	31.8
87.5°	12.2	11.2	11.2	11.2	11.2	11.2	12.2	13.1	13.1	13.1	14.0
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.1	19.0
92.5°	55.1	52.9	44.1	35.3	44.1	52.9	55.1	78.0	108.7	124.0	108.9
95°	186.8	180.2	153.8	127.2	153.8	180.2	186.8	245.4	323.4	362.5	306.1
97.5°	431.5	418.8	368.4	317.9	368.4	418.8	431.5	468.5	517.7	542.4	448.5
100°	605.9	590.8	530.7	470.5	530.7	590.8	605.9	603.2	599.5	597.7	493.5
102.5°	754.8	741.9	690.4	638.9	690.4	741.9	754.8	707.7	644.9	613.4	507.7
105°	928.6	921.7	894.0	866.4	894.0	921.7	928.6	823.0	682.1	611.7	509.3
107.5°	1019.0	1020.7	1027.4	1034.2	1027.4	1020.7	1019.0	871.6	675.1	576.9	486.6
110°	1042.2	1049.4	1078.3	1107.2	1078.3	1049.4	1042.2	877.4	657.8	547.9	466.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1027.4	1038.6	1082.9	1127.2	1082.9	1038.6	1027.4	858.8	634.0	521.6	449.0
115°	977.3	992.7	1054.2	1115.6	1054.2	992.7	977.3	814.9	598.3	490.0	428.8
117.5°	908.1	925.1	993.2	1061.4	993.2	925.1	908.1	761.4	566.0	468.2	416.2
120°	861.4	878.0	944.1	1010.3	944.1	878.0	861.4	727.5	548.9	459.5	412.0
122.5°	814.8	831.1	896.4	961.7	896.4	831.1	814.8	694.1	533.2	452.9	409.8
125°	753.1	768.1	828.2	888.3	828.2	768.1	753.1	650.6	514.0	445.7	408.0
127.5°	703.6	716.3	766.9	817.7	766.9	716.3	703.6	615.6	498.3	439.6	407.0
130°	672.2	683.9	730.8	777.7	730.8	683.9	672.2	593.9	489.5	437.3	407.5
132.5°	645.6	656.1	698.0	740.0	698.0	656.1	645.6	575.5	481.9	435.2	408.0
135°	607.9	617.0	653.2	689.3	653.2	617.0	607.9	549.2	470.9	431.7	407.6
137.5°	580.1	587.5	617.1	646.7	617.1	587.5	580.1	530.4	464.3	431.2	410.1
140°	557.7	564.7	592.4	620.1	592.4	564.7	557.7	514.8	457.7	429.1	410.5
142.5°	542.1	548.1	571.9	595.7	571.9	548.1	542.1	504.5	454.3	429.1	412.0
145°	518.7	523.2	541.2	559.2	541.2	523.2	518.7	487.8	446.8	426.2	412.0
147.5°	498.9	502.7	517.6	532.6	517.6	502.7	498.9	474.7	442.4	426.2	414.8
150°	487.6	490.6	502.8	514.9	502.8	490.6	487.6	467.2	439.9	426.2	416.3
152.5°	478.7	480.9	490.1	499.2	490.1	480.9	478.7	461.2	437.9	426.2	417.3
155°	467.9	469.4	475.5	481.6	475.5	469.4	467.9	454.0	435.5	426.2	419.4
157.5°	458.7	459.7	464.0	468.2	464.0	459.7	458.7	447.8	433.4	426.2	421.6
160°	454.1	454.6	457.1	459.5	457.1	454.6	454.1	444.8	432.4	426.2	422.5
162.5°	449.7	450.2	452.6	454.9	452.6	450.2	449.7	441.8	431.5	426.2	423.5
165°	443.1	443.7	446.1	448.6	446.1	443.7	443.1	437.4	430.0	426.2	425.0
167.5°	440.2	440.4	441.5	442.5	441.5	440.4	440.2	436.5	431.6	429.1	428.1
170°	440.2	440.2	440.2	440.2	440.2	440.2	440.2	436.5	431.6	429.1	429.0
172.5°	437.8	437.6	436.7	435.8	436.7	437.6	437.8	434.9	431.1	429.1	429.1
175°	434.6	434.6	434.6	434.6	434.6	434.6	434.6	432.8	430.3	429.1	429.7
177.5°	434.1	433.8	432.8	431.7	432.8	433.8	434.1	432.6	430.6	429.7	430.2
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	988.1	988.1	988.1	988.1	988.1
2.5°	975.9	980.6	983.4	987.1	996.5
5°	938.5	956.3	961.9	975.9	992.8
7.5°	856.3	910.5	925.5	959.1	985.3
10°	776.8	831.0	857.2	936.7	975.9
12.5°	736.6	768.4	786.2	897.4	962.8
15°	711.4	733.8	746.9	845.1	947.9
17.5°	691.8	707.7	717.0	793.7	927.3
20°	679.6	687.1	695.5	756.3	904.0
22.5°	671.2	666.5	673.1	730.1	872.2
25°	665.6	647.8	655.3	709.5	834.8
27.5°	670.3	631.0	633.8	690.8	795.5
30°	671.2	610.5	611.4	671.2	751.6
32.5°	664.7	589.0	589.9	646.9	702.1
35°	648.8	563.7	562.8	618.9	634.8
37.5°	627.3	536.6	536.6	588.0	560.9
40°	601.1	509.5	512.3	547.8	495.5
42.5°	569.3	480.5	484.3	494.6	446.9
45°	534.7	452.5	455.3	417.9	409.5
47.5°	496.4	423.5	424.4	346.9	397.3
50°	450.6	393.6	389.9	297.2	396.4
52.5°	410.4	360.9	349.7	269.2	360.0
55°	371.2	326.2	301.9	247.7	333.8
57.5°	336.6	281.3	258.0	222.5	328.1
60°	304.7	237.4	219.7	195.4	301.0
62.5°	278.5	204.7	201.0	176.7	272.9
65°	250.5	182.3	181.3	160.8	231.8
67.5°	223.4	167.3	166.4	145.8	176.7
70°	194.4	151.4	149.6	129.9	130.9
72.5°	164.5	133.7	131.8	116.8	108.4
75°	134.6	113.1	112.2	101.9	87.9
77.5°	105.6	89.7	91.6	82.3	64.5
80°	75.7	65.4	67.3	58.9	48.6
82.5°	50.5	43.0	44.9	37.4	32.7
85°	28.0	24.3	25.2	19.6	15.0
87.5°	13.1	11.2	11.2	7.5	4.7
90°	12.8	8.1	7.6	5.2	2.9
92.5°	78.6	55.9	50.9	31.3	11.6
95°	193.5	109.0	100.0	63.9	27.9
97.5°	260.6	119.6	111.7	79.9	48.1
100°	285.0	128.6	121.4	92.5	63.7
102.5°	296.2	137.6	130.9	104.0	77.1
105°	304.5	151.0	145.3	122.4	99.6
107.5°	306.1	170.7	165.3	144.1	122.8
110°	303.8	181.7	176.9	157.7	138.5



TEST NUMBER: P934735

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	303.9	195.0	190.4	172.2	153.9
115°	306.7	215.0	210.8	193.9	177.0
117.5°	312.4	234.4	230.6	215.3	199.9
120°	317.0	245.7	242.1	227.7	213.3
122.5°	323.6	259.0	255.4	240.9	226.3
125°	332.7	276.1	272.8	259.6	246.3
127.5°	341.6	292.7	289.3	275.9	262.6
130°	348.2	303.7	300.0	285.6	271.3
132.5°	353.5	312.7	309.0	294.6	280.2
135°	359.3	323.0	319.8	306.6	293.5
137.5°	368.0	336.4	333.1	320.1	307.1
140°	373.3	345.4	342.4	330.4	318.5
142.5°	377.7	352.0	349.2	338.2	327.1
145°	383.5	362.2	359.8	350.1	340.4
147.5°	392.0	374.9	372.6	363.1	353.8
150°	396.5	381.6	379.5	371.0	362.5
152.5°	399.4	385.9	384.4	377.9	371.5
155°	405.8	395.5	394.3	389.6	384.8
157.5°	412.1	405.1	404.0	399.3	394.6
160°	415.0	409.4	408.5	404.9	401.3
162.5°	418.1	414.1	413.4	410.7	408.0
165°	422.6	420.7	420.1	417.6	415.2
167.5°	426.0	424.4	424.2	423.0	421.8
170°	428.9	428.8	428.6	427.3	426.2
172.5°	429.1	429.1	429.0	428.8	428.6
175°	430.9	431.7	431.7	431.7	431.7
177.5°	431.1	431.7	431.7	431.7	431.7
180°	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934735  
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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	12.29	13.13	13.26	14.12	15.42	15.08	15.93	16.06	16.91	18.22
	3H	12.76	13.52	13.75	14.51	15.84	16.42	17.17	17.40	18.17	19.49
	4H	12.95	13.67	13.95	14.67	16.00	16.85	17.57	17.85	18.57	19.90
	6H	13.07	13.73	14.08	14.73	16.08	17.13	17.79	18.14	18.79	20.14
	8H	13.07	13.70	14.09	14.72	16.06	17.20	17.83	18.22	18.85	20.19
	12H	13.04	13.64	14.06	14.65	16.02	17.23	17.83	18.25	18.85	20.21
4H	2H	13.31	14.02	14.32	15.02	16.36	15.49	16.21	16.50	17.21	18.54
	3H	14.33	14.93	15.35	15.96	17.30	16.99	17.58	18.00	18.61	19.96
	4H	14.61	15.15	15.63	16.18	17.54	17.51	18.05	18.53	19.07	20.44
	6H	14.73	15.20	15.77	16.25	17.61	17.86	18.33	18.90	19.38	20.74
	8H	14.74	15.18	15.77	16.21	17.59	17.96	18.40	19.00	19.44	20.82
	12H	14.70	15.10	15.76	16.15	17.54	18.01	18.41	19.07	19.46	20.85
8H	4H	15.06	15.49	16.09	16.53	17.91	17.63	18.07	18.66	19.11	20.49
	6H	15.32	15.68	16.37	16.76	18.14	18.06	18.42	19.12	19.50	20.88
	8H	15.36	15.68	16.42	16.74	18.14	18.20	18.52	19.27	19.59	20.98
	12H	15.34	15.62	16.41	16.68	18.12	18.30	18.58	19.37	19.64	21.07
12H	4H	15.06	15.45	16.11	16.51	17.89	17.59	17.99	18.65	19.04	20.43
	6H	15.38	15.69	16.44	16.76	18.16	18.05	18.37	19.12	19.44	20.84
	8H	15.44	15.72	16.51	16.78	18.22	18.21	18.49	19.28	19.55	20.99