

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: P934762

Luminaire Tested: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934762
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

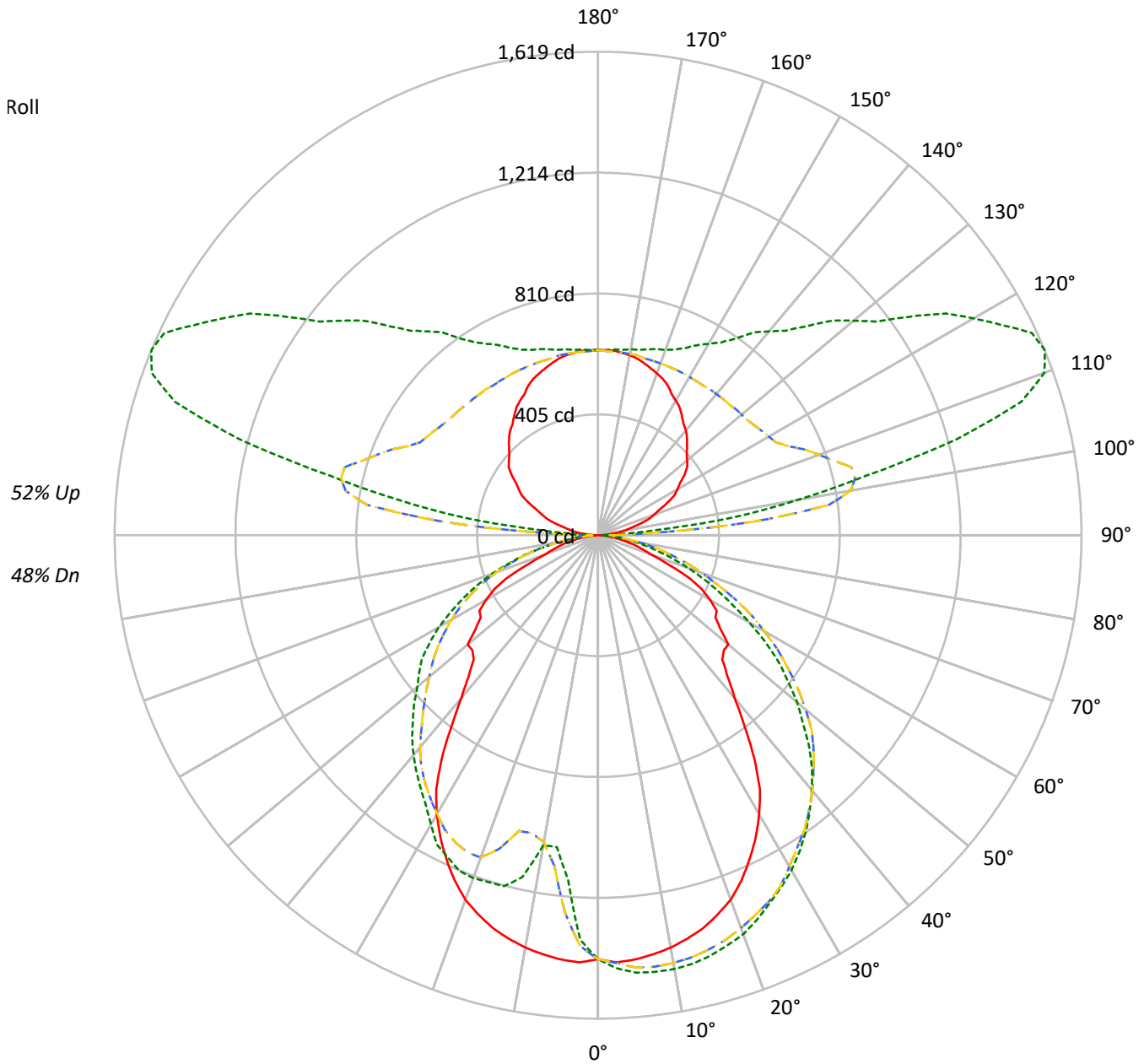
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7704.1 lumens
Efficiency: N/A
Efficacy: 121.1 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: General Diffuse

Input Watts (W): 63.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8781	8781	8781	8781
5°	8844	8864	8844	6970
10°	8782	8732	8782	6242
15°	8683	8543	8683	7133
20°	8498	8319	8498	7148
25°	8123	7992	8123	6997
30°	7639	7720	7639	6664
35°	6807	7377	6807	6298
40°	5669	6973	5669	6023
45°	5062	6500	5062	5705
50°	5373	5936	5373	5386
55°	5050	5328	5050	5202
60°	5200	4525	5200	4765
65°	4708	3740	4708	4181
70°	3251	2981	3251	3505
75°	2840	2203	2840	2639
80°	2272	1457	2272	1586
85°	1282	771	1282	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7763 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.7
10°-20°	363.8	4.7
20°-30°	562.4	7.3
30°-40°	671.4	8.7
40°-50°	675.3	8.8
50°-60°	587.6	7.6
60°-70°	416.6	5.4
70°-80°	220.4	2.9
80°-90°	57.3	0.7
90°-100°	302.4	3.9
100°-110°	794.9	10.3
110°-120°	824.3	10.7
120°-130°	661.2	8.6
130°-140°	518.8	6.7
140°-150°	398.2	5.2
150°-160°	286.8	3.7
160°-170°	175.5	2.3
170°-180°	59.3	0.8
0°-30°	1054.3	13.7
0°-40°	1725.7	22.4
0°-60°	2988.6	38.8
0°-90°	3682.9	47.8
90°-120°	1921.6	24.9
90°-150°	3499.7	45.4
90°-180°	4021.0	52.2
0°-180°	7704.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1420	1420	1420	1420	1420	
5°	1426	1470	1426	1156	1426	135
15°	1362	1457	1362	1217	1362	383
25°	1199	1359	1199	1190	1199	551
35°	912	1213	912	1035	912	564
45°	588	999	588	877	588	471
55°	479	737	479	720	479	441
65°	333	444	333	497	333	318
75°	126	211	126	252	126	133
85°	22	54	22	46	22	29
90°	4	16	4	16	4	4
95°	40	183	40	183	40	44
105°	143	1245	143	1245	143	152
115°	254	1603	254	1603	254	251
125°	354	1276	354	1276	354	314
135°	422	990	422	990	422	326
145°	489	804	489	804	489	306
155°	553	692	553	692	553	254
165°	596	644	596	644	596	168
175°	620	624	620	624	620	59
180°	620	620	620	620	620	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1431.6	1431.6	1439.7	1442.3	1442.3	1438.3	1434.3	1438.3	1450.4	1454.4	1453.1
5°	1426.2	1437.0	1451.7	1454.4	1457.1	1455.8	1453.1	1455.8	1469.2	1471.9	1473.2
7.5°	1415.5	1435.6	1454.4	1458.5	1462.5	1458.5	1457.1	1459.8	1473.2	1475.9	1475.9
10°	1402.1	1430.3	1451.7	1454.4	1458.5	1454.4	1454.4	1459.8	1473.2	1475.9	1477.3
12.5°	1383.3	1422.2	1442.3	1445.0	1450.4	1449.1	1447.7	1453.1	1466.5	1469.2	1469.2
15°	1361.8	1407.4	1426.2	1428.9	1438.3	1435.6	1435.6	1441.0	1455.8	1459.8	1458.5
17.5°	1332.2	1388.6	1410.1	1414.1	1420.9	1419.5	1420.9	1426.2	1439.7	1442.3	1443.7
20°	1298.7	1363.1	1388.6	1392.7	1399.4	1399.4	1399.4	1406.1	1419.5	1424.9	1424.9
22.5°	1253.0	1336.3	1363.1	1365.8	1373.9	1373.9	1376.5	1385.9	1398.0	1399.4	1399.4
25°	1199.3	1306.7	1329.5	1337.6	1345.7	1349.7	1353.7	1359.1	1363.1	1361.8	1363.1
27.5°	1142.9	1269.1	1298.7	1304.0	1314.8	1318.8	1324.2	1325.5	1326.9	1330.9	1328.2
30°	1079.7	1216.7	1261.0	1266.4	1283.9	1286.6	1281.2	1283.9	1290.6	1293.3	1296.0
32.5°	1008.6	1138.8	1222.1	1234.2	1250.3	1242.2	1240.9	1244.9	1255.7	1255.7	1258.4
35°	911.9	1078.4	1185.8	1196.6	1208.7	1199.3	1204.6	1206.0	1212.7	1216.7	1215.4
37.5°	805.8	1026.0	1148.2	1156.3	1165.7	1153.6	1161.7	1165.7	1171.1	1168.4	1168.4
40°	711.8	944.1	1103.9	1109.3	1117.3	1107.9	1116.0	1118.7	1121.4	1118.7	1117.3
42.5°	641.9	854.1	1056.9	1063.6	1058.3	1065.0	1067.7	1073.0	1069.0	1063.6	1063.6
45°	588.2	830.0	1005.9	1013.9	1005.9	1016.6	1020.7	1020.7	1008.6	1005.9	1004.5
47.5°	570.8	781.6	954.9	954.9	950.8	964.3	971.0	961.6	949.5	945.4	945.4
50°	569.4	727.9	885.0	879.6	898.4	914.6	907.8	898.4	889.0	874.3	874.3
52.5°	517.0	662.1	795.0	815.2	844.7	854.1	843.4	834.0	817.9	811.2	805.8
55°	479.4	593.6	713.1	753.4	784.3	796.4	776.2	766.8	742.7	738.6	735.9
57.5°	471.4	494.2	637.9	688.9	726.5	725.2	713.1	695.7	675.5	671.5	670.1
60°	432.4	357.2	557.3	617.8	656.7	652.7	641.9	625.8	607.0	604.3	601.6
62.5°	392.1	259.2	466.0	534.5	589.6	588.2	578.8	554.6	541.2	534.5	529.1
65°	333.1	217.6	331.7	444.5	523.8	526.4	506.3	488.8	474.1	466.0	464.7
67.5°	253.8	177.3	224.3	370.7	460.6	458.0	432.4	424.4	405.6	401.5	393.5
70°	188.0	118.2	155.8	300.8	398.9	392.1	372.0	362.6	345.1	335.7	330.4
72.5°	155.8	95.4	114.2	233.7	335.7	327.7	310.2	299.5	284.7	276.7	271.3
75°	126.2	100.7	87.3	173.2	272.6	267.3	251.1	240.4	228.3	217.6	218.9
77.5°	92.7	94.0	69.8	127.6	216.2	208.2	198.8	185.3	180.0	169.2	169.2
80°	69.8	73.9	52.4	87.3	155.8	155.8	147.7	138.3	128.9	123.6	123.6
82.5°	47.0	47.0	38.9	55.1	106.1	102.1	96.7	94.0	88.6	85.9	85.9
85°	21.5	26.9	24.2	33.6	57.7	60.4	60.4	57.7	56.4	53.7	55.1
87.5°	6.7	12.1	14.8	18.8	29.5	30.9	32.2	32.2	32.2	33.6	33.6
90°	4.1	7.4	10.8	11.6	18.3	27.1	31.6	28.1	21.1	15.8	15.8
92.5°	16.7	44.9	73.2	80.3	112.9	156.4	178.2	156.1	112.1	79.1	75.9
95°	39.9	91.8	143.5	156.5	277.9	439.9	520.8	464.8	352.6	268.5	259.0
97.5°	69.1	114.8	160.4	171.9	374.4	644.4	779.4	743.9	673.1	619.9	601.7
100°	91.6	133.0	174.5	184.9	409.5	709.1	858.9	861.5	866.7	870.5	848.9
102.5°	110.8	149.4	188.1	197.8	425.6	729.4	881.3	926.5	1016.8	1084.5	1066.0
105°	143.2	176.0	208.8	216.9	437.5	731.7	878.8	980.0	1182.4	1334.3	1324.3
107.5°	176.6	207.1	237.6	245.2	439.8	699.1	828.9	970.1	1252.5	1464.2	1466.6
110°	199.0	226.6	254.1	261.0	436.4	670.3	787.2	945.1	1260.8	1497.5	1507.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	221.1	247.3	273.6	280.1	436.6	645.1	749.4	910.9	1233.9	1476.2	1492.1
115°	254.4	278.6	302.8	308.9	440.6	616.2	704.0	859.6	1170.8	1404.2	1426.2
117.5°	287.2	309.2	331.3	336.8	448.8	598.1	672.7	813.2	1094.1	1304.7	1329.2
120°	306.4	327.1	347.8	353.0	455.4	592.0	660.3	788.6	1045.2	1237.7	1261.5
122.5°	325.2	346.0	367.0	372.2	465.0	588.8	650.7	766.2	997.3	1170.6	1194.1
125°	353.8	372.9	392.0	396.7	477.9	586.2	640.3	738.5	934.8	1082.0	1103.6
127.5°	377.2	396.4	415.6	420.4	490.8	584.6	631.6	715.8	884.4	1010.8	1029.1
130°	389.6	410.4	431.1	436.3	500.3	585.6	628.2	703.3	853.3	965.9	982.7
132.5°	402.5	423.3	444.0	449.2	507.9	586.2	625.3	692.4	826.8	927.5	942.6
135°	421.7	440.6	459.5	464.2	516.2	585.6	620.3	676.5	789.0	873.4	886.4
137.5°	441.3	459.9	478.6	483.3	528.7	589.2	619.5	667.0	762.1	833.4	844.1
140°	457.5	474.7	492.0	496.3	536.4	589.8	616.5	657.6	739.8	801.4	811.3
142.5°	470.0	486.0	501.9	505.9	542.7	591.9	616.5	652.6	724.8	778.9	787.5
145°	489.2	503.1	516.9	520.4	551.1	592.0	612.4	641.9	700.9	745.2	751.6
147.5°	508.3	521.8	535.3	538.7	563.2	596.0	612.4	635.6	682.0	716.9	722.2
150°	520.8	533.0	545.2	548.3	569.7	598.2	612.4	632.0	671.2	700.7	705.1
152.5°	533.7	543.0	552.2	554.6	573.8	599.5	612.4	629.1	662.6	687.8	691.1
155°	552.9	559.7	566.6	568.3	582.9	602.5	612.4	625.7	652.4	672.4	674.5
157.5°	567.0	573.7	580.3	582.0	592.2	605.7	612.4	622.8	643.5	659.0	660.6
160°	576.6	581.8	587.0	588.2	596.3	607.0	612.4	621.3	639.0	652.3	653.2
162.5°	586.2	590.1	593.9	594.9	600.8	608.5	612.4	619.9	634.9	646.1	647.0
165°	596.5	600.1	603.6	604.5	607.1	610.6	612.4	617.8	628.5	636.6	637.5
167.5°	606.1	607.8	609.4	609.9	612.1	615.1	616.5	620.0	627.1	632.4	632.7
170°	612.4	614.1	615.7	616.2	616.2	616.4	616.5	620.0	627.1	632.4	632.4
172.5°	615.7	616.1	616.4	616.5	616.5	616.5	616.5	619.3	624.8	629.0	628.7
175°	620.3	620.3	620.3	620.3	619.0	617.3	616.5	618.3	621.8	624.5	624.5
177.5°	620.3	620.3	620.3	620.3	619.3	618.0	617.4	618.8	621.6	623.7	623.3
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1455.8	1451.7	1455.8	1453.1	1454.4	1450.4	1438.3	1434.3	1438.3	1442.3	1442.3
5°	1473.2	1470.5	1473.2	1473.2	1471.9	1469.2	1455.8	1453.1	1455.8	1457.1	1454.4
7.5°	1478.6	1474.6	1478.6	1475.9	1475.9	1473.2	1459.8	1457.1	1458.5	1462.5	1458.5
10°	1478.6	1474.6	1478.6	1477.3	1475.9	1473.2	1459.8	1454.4	1454.4	1458.5	1454.4
12.5°	1471.9	1469.2	1471.9	1469.2	1469.2	1466.5	1453.1	1447.7	1449.1	1450.4	1445.0
15°	1461.1	1457.1	1461.1	1458.5	1459.8	1455.8	1441.0	1435.6	1435.6	1438.3	1428.9
17.5°	1445.0	1439.7	1445.0	1443.7	1442.3	1439.7	1426.2	1420.9	1419.5	1420.9	1414.1
20°	1426.2	1422.2	1426.2	1424.9	1424.9	1419.5	1406.1	1399.4	1399.4	1399.4	1392.7
22.5°	1396.7	1392.7	1396.7	1399.4	1399.4	1398.0	1385.9	1376.5	1373.9	1373.9	1365.8
25°	1363.1	1359.1	1363.1	1363.1	1361.8	1363.1	1359.1	1353.7	1349.7	1345.7	1337.6
27.5°	1330.9	1328.2	1330.9	1328.2	1330.9	1326.9	1325.5	1324.2	1318.8	1314.8	1304.0
30°	1298.7	1296.0	1298.7	1296.0	1293.3	1290.6	1283.9	1281.2	1286.6	1283.9	1266.4
32.5°	1258.4	1255.7	1258.4	1258.4	1255.7	1255.7	1244.9	1240.9	1242.2	1250.3	1234.2
35°	1216.7	1212.7	1216.7	1215.4	1216.7	1212.7	1206.0	1204.6	1199.3	1208.7	1196.6
37.5°	1168.4	1164.4	1168.4	1168.4	1168.4	1171.1	1165.7	1161.7	1153.6	1165.7	1156.3
40°	1118.7	1113.3	1118.7	1117.3	1118.7	1121.4	1118.7	1116.0	1107.9	1117.3	1109.3
42.5°	1062.3	1060.9	1062.3	1063.6	1063.6	1069.0	1073.0	1067.7	1065.0	1058.3	1063.6
45°	1001.9	999.2	1001.9	1004.5	1005.9	1008.6	1020.7	1020.7	1016.6	1005.9	1013.9
47.5°	937.4	930.7	937.4	945.4	945.4	949.5	961.6	971.0	964.3	950.8	954.9
50°	868.9	870.2	868.9	874.3	874.3	889.0	898.4	907.8	914.6	898.4	879.6
52.5°	801.8	800.4	801.8	805.8	811.2	817.9	834.0	843.4	854.1	844.7	815.2
55°	734.6	737.3	734.6	735.9	738.6	742.7	766.8	776.2	796.4	784.3	753.4
57.5°	667.5	663.4	667.5	670.1	671.5	675.5	695.7	713.1	725.2	726.5	688.9
60°	589.6	584.2	589.6	601.6	604.3	607.0	625.8	641.9	652.7	656.7	617.8
62.5°	521.1	511.7	521.1	529.1	534.5	541.2	554.6	578.8	588.2	589.6	534.5
65°	448.6	444.5	448.6	464.7	466.0	474.1	488.8	506.3	526.4	523.8	444.5
67.5°	382.7	382.7	382.7	393.5	401.5	405.6	424.4	432.4	458.0	460.6	370.7
70°	322.3	321.0	322.3	330.4	335.7	345.1	362.6	372.0	392.1	398.9	300.8
72.5°	264.6	263.2	264.6	271.3	276.7	284.7	299.5	310.2	327.7	335.7	233.7
75°	213.5	210.8	213.5	218.9	217.6	228.3	240.4	251.1	267.3	272.6	173.2
77.5°	163.8	163.8	163.8	169.2	169.2	180.0	185.3	198.8	208.2	216.2	127.6
80°	122.2	120.9	122.2	123.6	123.6	128.9	138.3	147.7	155.8	155.8	87.3
82.5°	85.9	83.3	85.9	85.9	85.9	88.6	94.0	96.7	102.1	106.1	55.1
85°	53.7	53.7	53.7	55.1	53.7	56.4	57.7	60.4	60.4	57.7	33.6
87.5°	34.9	33.6	34.9	33.6	33.6	32.2	32.2	32.2	30.9	29.5	18.8
90°	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.1	18.3	11.6
92.5°	63.3	50.8	63.3	75.9	79.1	112.1	156.1	178.2	156.4	112.9	80.3
95°	220.9	182.7	220.9	259.0	268.5	352.6	464.8	520.8	439.9	277.9	156.5
97.5°	529.2	456.7	529.2	601.7	619.9	673.1	743.9	779.4	644.4	374.4	171.9
100°	762.4	676.1	762.4	848.9	870.5	866.7	861.5	858.9	709.1	409.5	184.9
102.5°	992.0	918.0	992.0	1066.0	1084.5	1016.8	926.5	881.3	729.4	425.6	197.8
105°	1284.5	1244.8	1284.5	1324.3	1334.3	1182.4	980.0	878.8	731.7	437.5	216.9
107.5°	1476.2	1485.8	1476.2	1466.6	1464.2	1252.5	970.1	828.9	699.1	439.8	245.2
110°	1549.2	1590.7	1549.2	1507.9	1497.5	1260.8	945.1	787.2	670.3	436.4	261.0



TEST NUMBER: P934762

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1555.8	1619.4	1555.8	1492.1	1476.2	1233.9	910.9	749.4	645.1	436.6	280.1
115°	1514.5	1602.8	1514.5	1426.2	1404.2	1170.8	859.6	704.0	616.2	440.6	308.9
117.5°	1427.0	1524.9	1427.0	1329.2	1304.7	1094.1	813.2	672.7	598.1	448.8	336.8
120°	1356.6	1451.7	1356.6	1261.5	1237.7	1045.2	788.6	660.3	592.0	455.4	353.0
122.5°	1287.9	1381.7	1287.9	1194.1	1170.6	997.3	766.2	650.7	588.8	465.0	372.2
125°	1190.0	1276.4	1190.0	1103.6	1082.0	934.8	738.5	640.3	586.2	477.9	396.7
127.5°	1102.0	1174.8	1102.0	1029.1	1010.8	884.4	715.8	631.6	584.6	490.8	420.4
130°	1050.0	1117.3	1050.0	982.7	965.9	853.3	703.3	628.2	585.6	500.3	436.3
132.5°	1002.9	1063.3	1002.9	942.6	927.5	826.8	692.4	625.3	586.2	507.9	449.2
135°	938.4	990.4	938.4	886.4	873.4	789.0	676.5	620.3	585.6	516.2	464.2
137.5°	886.6	929.2	886.6	844.1	833.4	762.1	667.0	619.5	589.2	528.7	483.3
140°	851.2	890.9	851.2	811.3	801.4	739.8	657.6	616.5	589.8	536.4	496.3
142.5°	821.7	855.9	821.7	787.5	778.9	724.8	652.6	616.5	591.9	542.7	505.9
145°	777.6	803.5	777.6	751.6	745.2	700.9	641.9	612.4	592.0	551.1	520.4
147.5°	743.6	765.1	743.6	722.2	716.9	682.0	635.6	612.4	596.0	563.2	538.7
150°	722.4	739.8	722.4	705.1	700.7	671.2	632.0	612.4	598.2	569.7	548.3
152.5°	704.2	717.3	704.2	691.1	687.8	662.6	629.1	612.4	599.5	573.8	554.6
155°	683.2	691.9	683.2	674.5	672.4	652.4	625.7	612.4	602.5	582.9	568.3
157.5°	666.6	672.7	666.6	660.6	659.0	643.5	622.8	612.4	605.7	592.2	582.0
160°	656.7	660.3	656.7	653.2	652.3	639.0	621.3	612.4	607.0	596.3	588.2
162.5°	650.3	653.6	650.3	647.0	646.1	634.9	619.9	612.4	608.5	600.8	594.9
165°	641.0	644.4	641.0	637.5	636.6	628.5	617.8	612.4	610.6	607.1	604.5
167.5°	634.2	635.7	634.2	632.7	632.4	627.1	620.0	616.5	615.1	612.1	609.9
170°	632.4	632.4	632.4	632.4	632.4	627.1	620.0	616.5	616.4	616.2	616.2
172.5°	627.4	626.1	627.4	628.7	629.0	624.8	619.3	616.5	616.5	616.5	616.5
175°	624.5	624.5	624.5	624.5	624.5	621.8	618.3	616.5	617.3	619.0	620.3
177.5°	621.8	620.3	621.8	623.3	623.7	621.6	618.8	617.4	618.0	619.3	620.3
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934762

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1439.7	1431.6	1431.6	1418.2	1412.8	1408.8	1402.1	1381.9	1376.5	1371.2	1379.2
5°	1451.7	1437.0	1426.2	1402.1	1381.9	1373.9	1348.3	1300.0	1267.8	1243.6	1230.2
7.5°	1454.4	1435.6	1415.5	1377.9	1329.5	1308.1	1230.2	1141.5	1117.3	1095.9	1082.4
10°	1451.7	1430.3	1402.1	1345.7	1231.5	1193.9	1116.0	1058.3	1043.5	1039.5	1043.5
12.5°	1442.3	1422.2	1383.3	1289.2	1129.4	1103.9	1058.3	1024.7	1022.0	1028.7	1065.0
15°	1426.2	1407.4	1361.8	1214.0	1073.0	1054.2	1022.0	1009.9	1024.7	1071.7	1180.5
17.5°	1410.1	1388.6	1332.2	1140.2	1030.1	1016.6	993.8	1018.0	1101.2	1164.4	1200.6
20°	1388.6	1363.1	1298.7	1086.5	999.2	987.1	976.3	1085.1	1148.2	1171.1	1191.2
22.5°	1363.1	1336.3	1253.0	1048.9	966.9	957.5	964.3	1122.7	1148.2	1164.4	1181.8
25°	1329.5	1306.7	1199.3	1019.3	941.4	930.7	956.2	1118.7	1133.5	1137.5	1172.4
27.5°	1298.7	1269.1	1142.9	992.5	910.5	906.5	962.9	1101.2	1112.0	1116.0	1153.6
30°	1261.0	1216.7	1079.7	964.3	878.3	877.0	964.3	1079.7	1077.1	1087.8	1125.4
32.5°	1222.1	1138.8	1008.6	929.3	847.4	846.1	954.9	1047.5	1044.8	1059.6	1087.8
35°	1185.8	1078.4	911.9	889.0	808.5	809.8	932.0	1009.9	1011.3	1024.7	1042.1
37.5°	1148.2	1026.0	805.8	844.7	770.9	770.9	901.1	975.0	972.3	976.3	1000.5
40°	1103.9	944.1	711.8	787.0	735.9	731.9	863.5	937.4	928.0	926.6	960.2
42.5°	1056.9	854.1	641.9	710.4	695.7	690.3	817.9	891.7	874.3	878.3	921.3
45°	1005.9	830.0	588.2	600.3	654.0	650.0	768.2	839.4	827.3	838.0	882.3
47.5°	954.9	781.6	570.8	498.2	609.7	608.4	713.1	788.3	781.6	792.4	839.4
50°	885.0	727.9	569.4	427.1	560.0	565.4	647.3	738.6	738.6	748.0	797.7
52.5°	795.0	662.1	517.0	386.8	502.3	518.4	589.6	695.7	698.3	707.7	752.1
55°	713.1	593.6	479.4	355.9	433.8	468.7	533.2	651.3	656.7	666.1	706.4
57.5°	637.9	494.2	471.4	319.6	370.7	404.2	483.5	608.4	611.1	619.1	658.1
60°	557.3	357.2	432.4	280.7	315.6	341.1	437.8	557.3	566.7	572.1	605.7
62.5°	466.0	259.2	392.1	253.8	288.7	294.1	400.2	509.0	521.1	525.1	545.2
65°	331.7	217.6	333.1	231.0	260.5	261.9	359.9	459.3	470.0	476.8	491.5
67.5°	224.3	177.3	253.8	209.5	239.0	240.4	321.0	401.5	416.3	421.7	431.1
70°	155.8	118.2	188.0	186.7	214.9	217.6	279.3	349.2	362.6	366.6	372.0
72.5°	114.2	95.4	155.8	167.9	189.4	192.0	236.4	290.1	303.5	307.5	310.2
75°	87.3	100.7	126.2	146.4	161.2	162.5	193.4	236.4	245.8	248.4	249.8
77.5°	69.8	94.0	92.7	118.2	131.6	128.9	151.8	182.6	190.7	190.7	190.7
80°	52.4	73.9	69.8	84.6	96.7	94.0	108.8	130.3	133.0	135.6	134.3
82.5°	38.9	47.0	47.0	53.7	64.5	61.8	72.5	84.6	84.6	84.6	87.3
85°	24.2	26.9	21.5	28.2	36.3	34.9	40.3	45.7	47.0	47.0	44.3
87.5°	14.8	12.1	6.7	10.7	16.1	16.1	18.8	20.1	18.8	18.8	18.8
90°	10.8	7.4	4.1	7.4	10.8	11.6	18.3	27.1	31.6	28.1	21.1
92.5°	73.2	44.9	16.7	44.9	73.2	80.3	112.9	156.4	178.2	156.1	112.1
95°	143.5	91.8	39.9	91.8	143.5	156.5	277.9	439.9	520.8	464.8	352.6
97.5°	160.4	114.8	69.1	114.8	160.4	171.9	374.4	644.4	779.4	743.9	673.1
100°	174.5	133.0	91.6	133.0	174.5	184.9	409.5	709.1	858.9	861.5	866.7
102.5°	188.1	149.4	110.8	149.4	188.1	197.8	425.6	729.4	881.3	926.5	1016.8
105°	208.8	176.0	143.2	176.0	208.8	216.9	437.5	731.7	878.8	980.0	1182.4
107.5°	237.6	207.1	176.6	207.1	237.6	245.2	439.8	699.1	828.9	970.1	1252.5
110°	254.1	226.6	199.0	226.6	254.1	261.0	436.4	670.3	787.2	945.1	1260.8



TEST NUMBER: P934762

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	273.6	247.3	221.1	247.3	273.6	280.1	436.6	645.1	749.4	910.9	1233.9
115°	302.8	278.6	254.4	278.6	302.8	308.9	440.6	616.2	704.0	859.6	1170.8
117.5°	331.3	309.2	287.2	309.2	331.3	336.8	448.8	598.1	672.7	813.2	1094.1
120°	347.8	327.1	306.4	327.1	347.8	353.0	455.4	592.0	660.3	788.6	1045.2
122.5°	367.0	346.0	325.2	346.0	367.0	372.2	465.0	588.8	650.7	766.2	997.3
125°	392.0	372.9	353.8	372.9	392.0	396.7	477.9	586.2	640.3	738.5	934.8
127.5°	415.6	396.4	377.2	396.4	415.6	420.4	490.8	584.6	631.6	715.8	884.4
130°	431.1	410.4	389.6	410.4	431.1	436.3	500.3	585.6	628.2	703.3	853.3
132.5°	444.0	423.3	402.5	423.3	444.0	449.2	507.9	586.2	625.3	692.4	826.8
135°	459.5	440.6	421.7	440.6	459.5	464.2	516.2	585.6	620.3	676.5	789.0
137.5°	478.6	459.9	441.3	459.9	478.6	483.3	528.7	589.2	619.5	667.0	762.1
140°	492.0	474.7	457.5	474.7	492.0	496.3	536.4	589.8	616.5	657.6	739.8
142.5°	501.9	486.0	470.0	486.0	501.9	505.9	542.7	591.9	616.5	652.6	724.8
145°	516.9	503.1	489.2	503.1	516.9	520.4	551.1	592.0	612.4	641.9	700.9
147.5°	535.3	521.8	508.3	521.8	535.3	538.7	563.2	596.0	612.4	635.6	682.0
150°	545.2	533.0	520.8	533.0	545.2	548.3	569.7	598.2	612.4	632.0	671.2
152.5°	552.2	543.0	533.7	543.0	552.2	554.6	573.8	599.5	612.4	629.1	662.6
155°	566.6	559.7	552.9	559.7	566.6	568.3	582.9	602.5	612.4	625.7	652.4
157.5°	580.3	573.7	567.0	573.7	580.3	582.0	592.2	605.7	612.4	622.8	643.5
160°	587.0	581.8	576.6	581.8	587.0	588.2	596.3	607.0	612.4	621.3	639.0
162.5°	593.9	590.1	586.2	590.1	593.9	594.9	600.8	608.5	612.4	619.9	634.9
165°	603.6	600.1	596.5	600.1	603.6	604.5	607.1	610.6	612.4	617.8	628.5
167.5°	609.4	607.8	606.1	607.8	609.4	609.9	612.1	615.1	616.5	620.0	627.1
170°	615.7	614.1	612.4	614.1	615.7	616.2	616.2	616.4	616.5	620.0	627.1
172.5°	616.4	616.1	615.7	616.1	616.4	616.5	616.5	616.5	616.5	619.3	624.8
175°	620.3	620.3	620.3	620.3	620.3	620.3	619.0	617.3	616.5	618.3	621.8
177.5°	620.3	620.3	620.3	620.3	620.3	620.3	619.3	618.0	617.4	618.8	621.6
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934762

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1369.8	1365.8	1371.2	1356.4	1371.2	1365.8	1369.8	1379.2	1371.2	1376.5	1381.9
5°	1202.0	1195.2	1173.8	1156.3	1173.8	1195.2	1202.0	1230.2	1243.6	1267.8	1300.0
7.5°	1074.4	1069.0	1063.6	1052.9	1063.6	1069.0	1074.4	1082.4	1095.9	1117.3	1141.5
10°	1046.2	1047.5	1055.6	1054.2	1055.6	1047.5	1046.2	1043.5	1039.5	1043.5	1058.3
12.5°	1118.7	1130.8	1175.1	1172.4	1175.1	1130.8	1118.7	1065.0	1028.7	1022.0	1024.7
15°	1202.0	1206.0	1215.4	1216.7	1215.4	1206.0	1202.0	1180.5	1071.7	1024.7	1009.9
17.5°	1210.0	1211.4	1218.1	1218.1	1218.1	1211.4	1210.0	1200.6	1164.4	1101.2	1018.0
20°	1203.3	1206.0	1219.4	1222.1	1219.4	1206.0	1203.3	1191.2	1171.1	1148.2	1085.1
22.5°	1200.6	1206.0	1216.7	1215.4	1216.7	1206.0	1200.6	1181.8	1164.4	1148.2	1122.7
25°	1187.2	1187.2	1188.5	1189.9	1188.5	1187.2	1187.2	1172.4	1137.5	1133.5	1118.7
27.5°	1159.0	1161.7	1169.7	1168.4	1169.7	1161.7	1159.0	1153.6	1116.0	1112.0	1101.2
30°	1133.5	1130.8	1124.1	1118.7	1124.1	1130.8	1133.5	1125.4	1087.8	1077.1	1079.7
32.5°	1090.5	1083.8	1077.1	1073.0	1077.1	1083.8	1090.5	1087.8	1059.6	1044.8	1047.5
35°	1039.5	1040.8	1039.5	1035.4	1039.5	1040.8	1039.5	1042.1	1024.7	1011.3	1009.9
37.5°	1003.2	1005.9	1004.5	999.2	1004.5	1005.9	1003.2	1000.5	976.3	972.3	975.0
40°	965.6	966.9	965.6	961.6	965.6	966.9	965.6	960.2	926.6	928.0	937.4
42.5°	929.3	928.0	924.0	921.3	924.0	928.0	929.3	921.3	878.3	874.3	891.7
45°	887.7	889.0	881.0	877.0	881.0	889.0	887.7	882.3	838.0	827.3	839.4
47.5°	846.1	846.1	839.4	835.3	839.4	846.1	846.1	839.4	792.4	781.6	788.3
50°	801.8	800.4	791.0	789.7	791.0	800.4	801.8	797.7	748.0	738.6	738.6
52.5°	750.7	750.7	752.1	754.7	752.1	750.7	750.7	752.1	707.7	698.3	695.7
55°	706.4	707.7	717.1	719.8	717.1	707.7	706.4	706.4	666.1	656.7	651.3
57.5°	660.7	660.7	667.5	667.5	667.5	660.7	660.7	658.1	619.1	611.1	608.4
60°	608.4	611.1	616.4	615.1	616.4	611.1	608.4	605.7	572.1	566.7	557.3
62.5°	553.3	556.0	557.3	554.6	557.3	556.0	553.3	545.2	525.1	521.1	509.0
65°	495.6	498.2	499.6	496.9	499.6	498.2	495.6	491.5	476.8	470.0	459.3
67.5°	436.5	435.1	433.8	439.2	433.8	435.1	436.5	431.1	421.7	416.3	401.5
70°	376.0	376.0	374.7	377.4	374.7	376.0	376.0	372.0	366.6	362.6	349.2
72.5°	311.6	310.2	315.6	311.6	315.6	310.2	311.6	310.2	307.5	303.5	290.1
75°	248.4	251.1	248.4	252.5	248.4	251.1	248.4	249.8	248.4	245.8	236.4
77.5°	189.4	192.0	189.4	189.4	189.4	192.0	189.4	190.7	190.7	190.7	182.6
80°	134.3	133.0	133.0	131.6	133.0	133.0	134.3	134.3	135.6	133.0	130.3
82.5°	85.9	84.6	84.6	87.3	84.6	84.6	85.9	87.3	84.6	84.6	84.6
85°	47.0	48.3	45.7	45.7	45.7	48.3	47.0	44.3	47.0	47.0	45.7
87.5°	17.5	16.1	16.1	16.1	16.1	16.1	17.5	18.8	18.8	18.8	20.1
90°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.1
92.5°	79.1	75.9	63.3	50.8	63.3	75.9	79.1	112.1	156.1	178.2	156.4
95°	268.5	259.0	220.9	182.7	220.9	259.0	268.5	352.6	464.8	520.8	439.9
97.5°	619.9	601.7	529.2	456.7	529.2	601.7	619.9	673.1	743.9	779.4	644.4
100°	870.5	848.9	762.4	676.1	762.4	848.9	870.5	866.7	861.5	858.9	709.1
102.5°	1084.5	1066.0	992.0	918.0	992.0	1066.0	1084.5	1016.8	926.5	881.3	729.4
105°	1334.3	1324.3	1284.5	1244.8	1284.5	1324.3	1334.3	1182.4	980.0	878.8	731.7
107.5°	1464.2	1466.6	1476.2	1485.8	1476.2	1466.6	1464.2	1252.5	970.1	828.9	699.1
110°	1497.5	1507.9	1549.2	1590.7	1549.2	1507.9	1497.5	1260.8	945.1	787.2	670.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1476.2	1492.1	1555.8	1619.4	1555.8	1492.1	1476.2	1233.9	910.9	749.4	645.1
115°	1404.2	1426.2	1514.5	1602.8	1514.5	1426.2	1404.2	1170.8	859.6	704.0	616.2
117.5°	1304.7	1329.2	1427.0	1524.9	1427.0	1329.2	1304.7	1094.1	813.2	672.7	598.1
120°	1237.7	1261.5	1356.6	1451.7	1356.6	1261.5	1237.7	1045.2	788.6	660.3	592.0
122.5°	1170.6	1194.1	1287.9	1381.7	1287.9	1194.1	1170.6	997.3	766.2	650.7	588.8
125°	1082.0	1103.6	1190.0	1276.4	1190.0	1103.6	1082.0	934.8	738.5	640.3	586.2
127.5°	1010.8	1029.1	1102.0	1174.8	1102.0	1029.1	1010.8	884.4	715.8	631.6	584.6
130°	965.9	982.7	1050.0	1117.3	1050.0	982.7	965.9	853.3	703.3	628.2	585.6
132.5°	927.5	942.6	1002.9	1063.3	1002.9	942.6	927.5	826.8	692.4	625.3	586.2
135°	873.4	886.4	938.4	990.4	938.4	886.4	873.4	789.0	676.5	620.3	585.6
137.5°	833.4	844.1	886.6	929.2	886.6	844.1	833.4	762.1	667.0	619.5	589.2
140°	801.4	811.3	851.2	890.9	851.2	811.3	801.4	739.8	657.6	616.5	589.8
142.5°	778.9	787.5	821.7	855.9	821.7	787.5	778.9	724.8	652.6	616.5	591.9
145°	745.2	751.6	777.6	803.5	777.6	751.6	745.2	700.9	641.9	612.4	592.0
147.5°	716.9	722.2	743.6	765.1	743.6	722.2	716.9	682.0	635.6	612.4	596.0
150°	700.7	705.1	722.4	739.8	722.4	705.1	700.7	671.2	632.0	612.4	598.2
152.5°	687.8	691.1	704.2	717.3	704.2	691.1	687.8	662.6	629.1	612.4	599.5
155°	672.4	674.5	683.2	691.9	683.2	674.5	672.4	652.4	625.7	612.4	602.5
157.5°	659.0	660.6	666.6	672.7	666.6	660.6	659.0	643.5	622.8	612.4	605.7
160°	652.3	653.2	656.7	660.3	656.7	653.2	652.3	639.0	621.3	612.4	607.0
162.5°	646.1	647.0	650.3	653.6	650.3	647.0	646.1	634.9	619.9	612.4	608.5
165°	636.6	637.5	641.0	644.4	641.0	637.5	636.6	628.5	617.8	612.4	610.6
167.5°	632.4	632.7	634.2	635.7	634.2	632.7	632.4	627.1	620.0	616.5	615.1
170°	632.4	632.4	632.4	632.4	632.4	632.4	632.4	627.1	620.0	616.5	616.4
172.5°	629.0	628.7	627.4	626.1	627.4	628.7	629.0	624.8	619.3	616.5	616.5
175°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	621.8	618.3	616.5	617.3
177.5°	623.7	623.3	621.8	620.3	621.8	623.3	623.7	621.6	618.8	617.4	618.0
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1402.1	1408.8	1412.8	1418.2	1431.6
5°	1348.3	1373.9	1381.9	1402.1	1426.2
7.5°	1230.2	1308.1	1329.5	1377.9	1415.5
10°	1116.0	1193.9	1231.5	1345.7	1402.1
12.5°	1058.3	1103.9	1129.4	1289.2	1383.3
15°	1022.0	1054.2	1073.0	1214.0	1361.8
17.5°	993.8	1016.6	1030.1	1140.2	1332.2
20°	976.3	987.1	999.2	1086.5	1298.7
22.5°	964.3	957.5	966.9	1048.9	1253.0
25°	956.2	930.7	941.4	1019.3	1199.3
27.5°	962.9	906.5	910.5	992.5	1142.9
30°	964.3	877.0	878.3	964.3	1079.7
32.5°	954.9	846.1	847.4	929.3	1008.6
35°	932.0	809.8	808.5	889.0	911.9
37.5°	901.1	770.9	770.9	844.7	805.8
40°	863.5	731.9	735.9	787.0	711.8
42.5°	817.9	690.3	695.7	710.4	641.9
45°	768.2	650.0	654.0	600.3	588.2
47.5°	713.1	608.4	609.7	498.2	570.8
50°	647.3	565.4	560.0	427.1	569.4
52.5°	589.6	518.4	502.3	386.8	517.0
55°	533.2	468.7	433.8	355.9	479.4
57.5°	483.5	404.2	370.7	319.6	471.4
60°	437.8	341.1	315.6	280.7	432.4
62.5°	400.2	294.1	288.7	253.8	392.1
65°	359.9	261.9	260.5	231.0	333.1
67.5°	321.0	240.4	239.0	209.5	253.8
70°	279.3	217.6	214.9	186.7	188.0
72.5°	236.4	192.0	189.4	167.9	155.8
75°	193.4	162.5	161.2	146.4	126.2
77.5°	151.8	128.9	131.6	118.2	92.7
80°	108.8	94.0	96.7	84.6	69.8
82.5°	72.5	61.8	64.5	53.7	47.0
85°	40.3	34.9	36.3	28.2	21.5
87.5°	18.8	16.1	16.1	10.7	6.7
90°	18.3	11.6	10.8	7.4	4.1
92.5°	112.9	80.3	73.2	44.9	16.7
95°	277.9	156.5	143.5	91.8	39.9
97.5°	374.4	171.9	160.4	114.8	69.1
100°	409.5	184.9	174.5	133.0	91.6
102.5°	425.6	197.8	188.1	149.4	110.8
105°	437.5	216.9	208.8	176.0	143.2
107.5°	439.8	245.2	237.6	207.1	176.6
110°	436.4	261.0	254.1	226.6	199.0



TEST NUMBER: P934762

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	436.6	280.1	273.6	247.3	221.1
115°	440.6	308.9	302.8	278.6	254.4
117.5°	448.8	336.8	331.3	309.2	287.2
120°	455.4	353.0	347.8	327.1	306.4
122.5°	465.0	372.2	367.0	346.0	325.2
125°	477.9	396.7	392.0	372.9	353.8
127.5°	490.8	420.4	415.6	396.4	377.2
130°	500.3	436.3	431.1	410.4	389.6
132.5°	507.9	449.2	444.0	423.3	402.5
135°	516.2	464.2	459.5	440.6	421.7
137.5°	528.7	483.3	478.6	459.9	441.3
140°	536.4	496.3	492.0	474.7	457.5
142.5°	542.7	505.9	501.9	486.0	470.0
145°	551.1	520.4	516.9	503.1	489.2
147.5°	563.2	538.7	535.3	521.8	508.3
150°	569.7	548.3	545.2	533.0	520.8
152.5°	573.8	554.6	552.2	543.0	533.7
155°	582.9	568.3	566.6	559.7	552.9
157.5°	592.2	582.0	580.3	573.7	567.0
160°	596.3	588.2	587.0	581.8	576.6
162.5°	600.8	594.9	593.9	590.1	586.2
165°	607.1	604.5	603.6	600.1	596.5
167.5°	612.1	609.9	609.4	607.8	606.1
170°	616.2	616.2	615.7	614.1	612.4
172.5°	616.5	616.5	616.4	616.1	615.7
175°	619.0	620.3	620.3	620.3	620.3
177.5°	619.3	620.3	620.3	620.3	620.3
180°	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934762
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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	12.14	12.99	13.12	13.98	15.28	14.97	15.81	15.94	16.80	18.10
	3H	12.62	13.37	13.61	14.37	15.70	16.31	17.06	17.30	18.06	19.39
	4H	12.81	13.52	13.81	14.53	15.86	16.75	17.47	17.75	18.47	19.80
	6H	12.93	13.59	13.94	14.59	15.94	17.04	17.69	18.05	18.70	20.04
	8H	12.93	13.56	13.95	14.58	15.92	17.11	17.73	18.13	18.76	20.10
	12H	12.90	13.49	13.92	14.51	15.88	17.15	17.74	18.17	18.76	20.12
4H	2H	13.17	13.89	14.18	14.89	16.22	15.38	16.09	16.38	17.09	18.42
	3H	14.20	14.79	15.21	15.82	17.17	16.88	17.47	17.89	18.50	19.85
	4H	14.47	15.02	15.50	16.04	17.41	17.40	17.95	18.43	18.97	20.34
	6H	14.60	15.07	15.63	16.11	17.48	17.77	18.23	18.80	19.28	20.65
	8H	14.60	15.04	15.64	16.08	17.46	17.87	18.31	18.91	19.35	20.73
	12H	14.57	14.96	15.62	16.02	17.40	17.93	18.32	18.98	19.38	20.76
8H	4H	14.93	15.36	15.96	16.40	17.78	17.53	17.96	18.56	19.00	20.38
	6H	15.19	15.55	16.24	16.63	18.01	17.96	18.32	19.02	19.40	20.78
	8H	15.23	15.55	16.29	16.61	18.01	18.11	18.43	19.18	19.50	20.89
	12H	15.21	15.49	16.28	16.55	17.99	18.21	18.49	19.28	19.55	20.99
12H	4H	14.93	15.33	15.98	16.38	17.76	17.49	17.89	18.54	18.94	20.33
	6H	15.25	15.56	16.31	16.63	18.03	17.96	18.28	19.02	19.34	20.74
	8H	15.31	15.59	16.38	16.65	18.09	18.12	18.40	19.19	19.46	20.90