

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: P934342

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934342
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

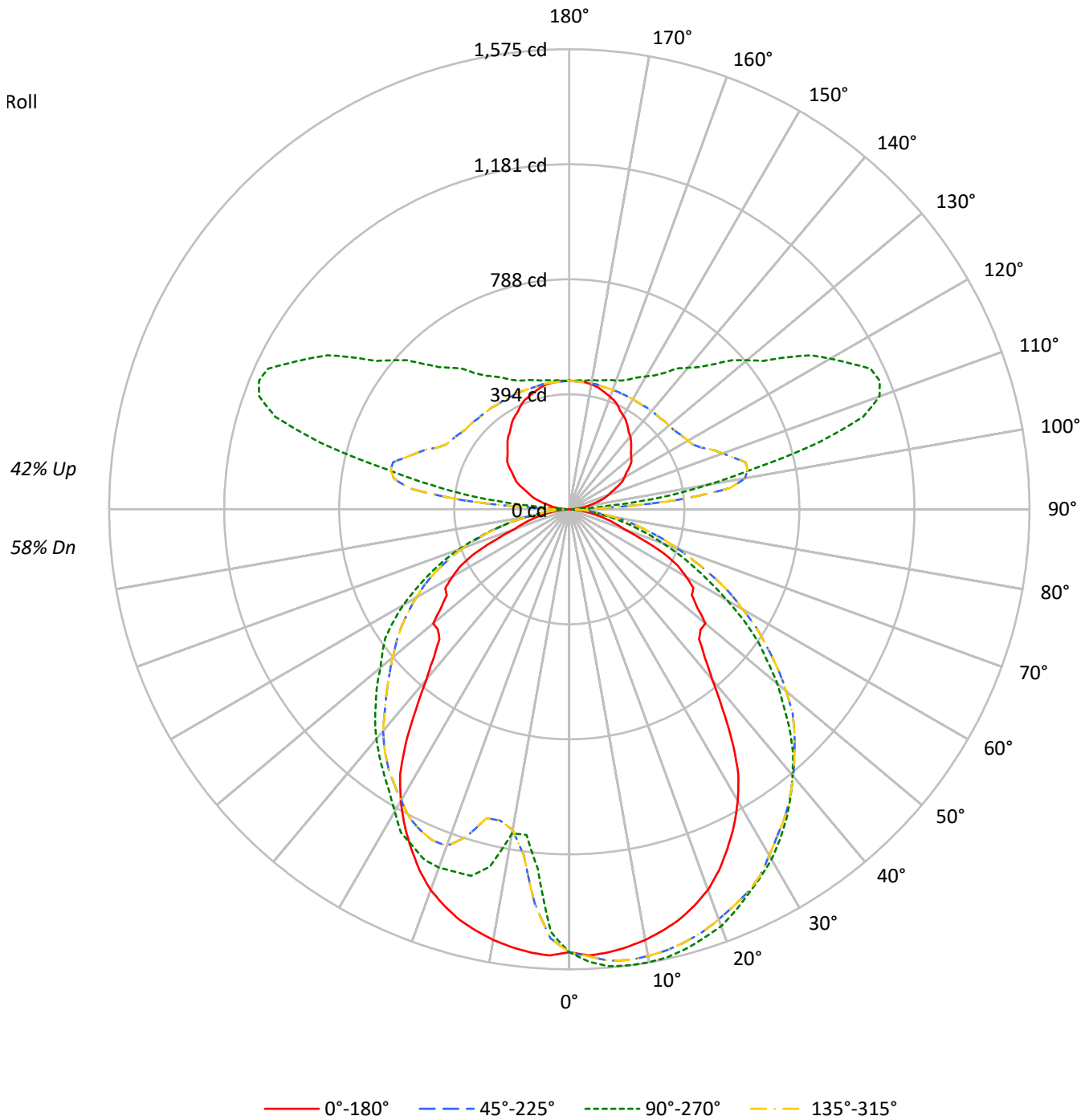
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6788.0 lumens
Efficiency: N/A
Efficacy: 124.3 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: General Diffuse

Input Watts (W): 54.6
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





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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9378	9378	9378	9378
5°	9445	9467	9445	7444
10°	9378	9325	9378	6667
15°	9273	9124	9273	7619
20°	9076	8884	9076	7634
25°	8675	8535	8675	7473
30°	8159	8245	8159	7118
35°	7270	7879	7270	6727
40°	6054	7447	6054	6432
45°	5406	6942	5406	6093
50°	5738	6339	5738	5753
55°	5394	5690	5394	5556
60°	5553	4833	5553	5088
65°	5027	3995	5027	4466
70°	3473	3184	3473	3743
75°	3033	2354	3033	2818
80°	2428	1556	2428	1695
85°	1365	824	1365	701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8291 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	2.0
10°-20°	388.6	5.7
20°-30°	600.6	8.8
30°-40°	717.0	10.6
40°-50°	721.2	10.6
50°-60°	627.6	9.2
60°-70°	445.0	6.6
70°-80°	235.4	3.5
80°-90°	60.3	0.9
90°-100°	214.7	3.2
100°-110°	564.5	8.3
110°-120°	585.3	8.6
120°-130°	469.5	6.9
130°-140°	368.4	5.4
140°-150°	282.7	4.2
150°-160°	203.6	3.0
160°-170°	124.6	1.8
170°-180°	42.1	0.6
0°-30°	1126.0	16.6
0°-40°	1843.1	27.2
0°-60°	3191.9	47.0
0°-90°	3932.5	57.9
90°-120°	1364.5	20.1
90°-150°	2485.1	36.6
90°-180°	2855.0	42.1
0°-180°	6788.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1516	1516	1516	1516	1516	
5°	1523	1570	1523	1235	1523	144
15°	1454	1556	1454	1300	1454	409
25°	1281	1452	1281	1271	1281	588
35°	974	1295	974	1106	974	603
45°	628	1067	628	937	628	503
55°	512	787	512	769	512	470
65°	356	475	356	531	356	340
75°	135	225	135	270	135	142
85°	23	57	23	49	23	31
90°	3	11	3	11	3	3
95°	28	130	28	130	28	32
105°	102	884	102	884	102	108
115°	181	1138	181	1138	181	178
125°	251	906	251	906	251	223
135°	300	703	300	703	300	232
145°	347	571	347	571	347	218
155°	393	491	393	491	393	180
165°	424	458	424	458	424	120
175°	440	443	440	443	440	42
180°	440	440	440	440	440	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1529.0	1529.0	1537.6	1540.4	1540.4	1536.1	1531.8	1536.1	1549.0	1553.3	1551.9
5°	1523.2	1534.7	1550.5	1553.3	1556.2	1554.8	1551.9	1554.8	1569.1	1572.0	1573.4
7.5°	1511.7	1533.3	1553.3	1557.6	1561.9	1557.6	1556.2	1559.1	1573.4	1576.3	1576.3
10°	1497.4	1527.5	1550.5	1553.3	1557.6	1553.3	1553.3	1559.1	1573.4	1576.3	1577.7
12.5°	1477.3	1518.9	1540.4	1543.3	1549.0	1547.6	1546.2	1551.9	1566.2	1569.1	1569.1
15°	1454.4	1503.1	1523.2	1526.1	1536.1	1533.3	1533.3	1539.0	1554.8	1559.1	1557.6
17.5°	1422.8	1483.1	1506.0	1510.3	1517.5	1516.0	1517.5	1523.2	1537.6	1540.4	1541.9
20°	1387.0	1455.8	1483.1	1487.4	1494.5	1494.5	1494.5	1501.7	1516.0	1521.8	1521.8
22.5°	1338.2	1427.1	1455.8	1458.7	1467.3	1467.3	1470.1	1480.2	1493.1	1494.5	1494.5
25°	1280.8	1395.6	1419.9	1428.6	1437.2	1441.5	1445.8	1451.5	1455.8	1454.4	1455.8
27.5°	1220.6	1355.4	1387.0	1392.7	1404.2	1408.5	1414.2	1415.6	1417.1	1421.4	1418.5
30°	1153.2	1299.5	1346.8	1352.5	1371.2	1374.0	1368.3	1371.2	1378.4	1381.2	1384.1
32.5°	1077.2	1216.3	1305.2	1318.1	1335.3	1326.7	1325.3	1329.6	1341.1	1341.1	1343.9
35°	973.9	1151.7	1266.5	1278.0	1290.9	1280.8	1286.6	1288.0	1295.2	1299.5	1298.0
37.5°	860.6	1095.8	1226.3	1234.9	1245.0	1232.1	1240.7	1245.0	1250.7	1247.8	1247.8
40°	760.2	1008.3	1179.0	1184.7	1193.3	1183.3	1191.9	1194.8	1197.6	1194.8	1193.3
42.5°	685.6	912.2	1128.8	1136.0	1130.2	1137.4	1140.3	1146.0	1141.7	1136.0	1136.0
45°	628.2	886.4	1074.3	1082.9	1074.3	1085.8	1090.1	1090.1	1077.2	1074.3	1072.8
47.5°	609.6	834.8	1019.8	1019.8	1015.5	1029.8	1037.0	1027.0	1014.0	1009.7	1009.7
50°	608.1	777.4	945.2	939.5	959.5	976.8	969.6	959.5	949.5	933.7	933.7
52.5°	552.2	707.1	849.1	870.6	902.2	912.2	900.7	890.7	873.5	866.3	860.6
55°	512.0	634.0	761.6	804.6	837.6	850.5	829.0	819.0	793.2	788.9	786.0
57.5°	503.4	527.8	681.3	735.8	776.0	774.5	761.6	743.0	721.4	717.1	715.7
60°	461.8	381.5	595.2	659.8	701.4	697.1	685.6	668.4	648.3	645.4	642.6
62.5°	418.8	276.8	497.7	570.8	629.7	628.2	618.2	592.4	578.0	570.8	565.1
65°	355.7	232.4	354.3	474.7	559.4	562.2	540.7	522.1	506.3	497.7	496.3
67.5°	271.1	189.3	239.5	395.9	492.0	489.1	461.8	453.2	433.2	428.9	420.2
70°	200.8	126.2	166.4	321.3	426.0	418.8	397.3	387.3	368.6	358.6	352.8
72.5°	166.4	101.8	121.9	249.6	358.6	350.0	331.3	319.8	304.1	295.5	289.7
75°	134.8	107.6	93.2	185.0	291.2	285.4	268.2	256.7	243.8	232.4	233.8
77.5°	99.0	100.4	74.6	136.3	230.9	222.3	212.3	197.9	192.2	180.7	180.7
80°	74.6	78.9	55.9	93.2	166.4	166.4	157.8	147.7	137.7	132.0	132.0
82.5°	50.2	50.2	41.6	58.8	113.3	109.0	103.3	100.4	94.7	91.8	91.8
85°	22.9	28.7	25.8	35.9	61.7	64.5	64.5	61.7	60.2	57.4	58.8
87.5°	7.2	12.9	15.8	20.1	31.6	33.0	34.4	34.4	34.4	35.9	35.9
90°	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9	11.2	11.2
92.5°	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.6	56.1	53.9
95°	28.4	65.1	101.9	111.1	197.4	312.4	369.9	330.1	250.4	190.7	183.9
97.5°	49.1	81.6	114.0	122.1	265.9	457.6	553.4	528.3	477.9	440.1	427.2
100°	65.0	94.5	123.9	131.3	290.8	503.5	609.9	611.7	615.4	618.2	602.9
102.5°	78.6	106.1	133.6	140.5	302.3	518.0	625.8	657.9	722.0	770.1	757.0
105°	101.7	125.0	148.2	154.0	310.7	519.6	624.0	695.9	839.6	947.5	940.4
107.5°	125.4	147.1	168.7	174.1	312.3	496.5	588.5	688.7	889.3	1039.7	1041.4
110°	141.3	160.8	180.4	185.3	309.9	476.0	559.0	671.1	895.3	1063.4	1070.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.0	175.7	194.3	199.0	310.0	458.1	532.1	646.9	876.3	1048.3	1059.6
115°	180.6	197.8	215.0	219.4	312.9	437.6	499.9	610.4	831.4	997.1	1012.8
117.5°	204.0	219.6	235.2	239.1	318.7	424.7	477.7	577.4	776.9	926.5	943.9
120°	217.5	232.3	247.0	250.7	323.4	420.3	468.8	559.9	742.2	878.8	895.8
122.5°	230.9	245.7	260.6	264.3	330.2	418.0	462.0	544.1	708.3	831.3	848.0
125°	251.3	264.8	278.3	281.7	339.4	416.2	454.7	524.4	663.8	768.3	783.6
127.5°	267.8	281.5	295.2	298.6	348.5	415.2	448.5	508.3	627.9	717.7	730.6
130°	276.7	291.4	306.2	309.8	355.2	415.8	446.1	499.3	605.9	685.9	697.8
132.5°	285.9	300.6	315.4	319.0	360.7	416.2	444.1	491.8	587.1	658.6	669.3
135°	299.5	312.9	326.3	329.6	366.6	415.8	440.5	480.5	560.3	620.2	629.5
137.5°	313.3	326.6	339.8	343.2	375.4	418.3	439.8	473.6	541.1	591.8	599.3
140°	324.9	337.2	349.3	352.4	380.9	418.8	437.8	467.0	525.3	569.0	576.1
142.5°	333.7	345.0	356.3	359.1	385.3	420.3	437.8	463.5	514.6	553.1	559.2
145°	347.4	357.2	367.1	369.6	391.4	420.3	434.9	455.8	497.7	529.2	533.7
147.5°	361.0	370.5	380.2	382.6	400.0	423.2	434.9	451.3	484.3	509.1	512.9
150°	369.9	378.6	387.2	389.4	404.6	424.7	434.9	448.8	476.7	497.5	500.6
152.5°	378.9	385.5	392.1	393.8	407.4	425.7	434.9	446.7	470.5	488.3	490.6
155°	392.6	397.5	402.3	403.5	413.9	427.9	434.9	444.3	463.3	477.4	479.0
157.5°	402.7	407.3	412.1	413.3	420.4	430.1	434.9	442.2	457.0	468.0	469.0
160°	409.4	413.1	416.7	417.7	423.4	431.1	434.9	441.2	453.8	463.3	463.8
162.5°	416.2	419.0	421.8	422.4	426.6	432.1	434.9	440.2	450.8	458.8	459.4
165°	423.6	426.1	428.6	429.2	431.1	433.6	434.9	438.7	446.3	452.0	452.7
167.5°	430.4	431.5	432.8	433.1	434.7	436.8	437.8	440.3	445.3	449.0	449.3
170°	434.9	436.0	437.3	437.6	437.6	437.7	437.8	440.3	445.3	449.0	449.0
172.5°	437.3	437.6	437.7	437.8	437.8	437.8	437.8	439.8	443.7	446.6	446.4
175°	440.5	440.5	440.5	440.5	439.7	438.4	437.8	439.1	441.6	443.4	443.4
177.5°	440.5	440.5	440.5	440.5	439.8	438.9	438.4	439.4	441.4	442.8	442.5
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1554.8	1550.5	1554.8	1551.9	1553.3	1549.0	1536.1	1531.8	1536.1	1540.4	1540.4
5°	1573.4	1570.5	1573.4	1573.4	1572.0	1569.1	1554.8	1551.9	1554.8	1556.2	1553.3
7.5°	1579.2	1574.8	1579.2	1576.3	1576.3	1573.4	1559.1	1553.3	1553.3	1557.6	1553.3
10°	1579.2	1574.8	1579.2	1577.7	1576.3	1573.4	1559.1	1553.3	1553.3	1557.6	1553.3
12.5°	1572.0	1569.1	1572.0	1569.1	1569.1	1566.2	1551.9	1546.2	1547.6	1549.0	1543.3
15°	1560.5	1556.2	1560.5	1557.6	1559.1	1554.8	1539.0	1533.3	1533.3	1536.1	1526.1
17.5°	1543.3	1537.6	1543.3	1541.9	1540.4	1537.6	1523.2	1517.5	1516.0	1517.5	1510.3
20°	1523.2	1518.9	1523.2	1521.8	1521.8	1516.0	1501.7	1494.5	1494.5	1494.5	1487.4
22.5°	1491.7	1487.4	1491.7	1494.5	1494.5	1493.1	1480.2	1470.1	1467.3	1467.3	1458.7
25°	1455.8	1451.5	1455.8	1455.8	1454.4	1455.8	1451.5	1445.8	1441.5	1437.2	1428.6
27.5°	1421.4	1418.5	1421.4	1418.5	1421.4	1417.1	1415.6	1414.2	1408.5	1404.2	1392.7
30°	1387.0	1384.1	1387.0	1384.1	1381.2	1378.4	1371.2	1368.3	1374.0	1371.2	1352.5
32.5°	1343.9	1341.1	1343.9	1343.9	1341.1	1341.1	1329.6	1325.3	1326.7	1335.3	1318.1
35°	1299.5	1295.2	1299.5	1298.0	1299.5	1295.2	1288.0	1286.6	1280.8	1290.9	1278.0
37.5°	1247.8	1243.5	1247.8	1247.8	1247.8	1250.7	1245.0	1240.7	1232.1	1245.0	1234.9
40°	1194.8	1189.0	1194.8	1193.3	1194.8	1197.6	1194.8	1191.9	1183.3	1193.3	1184.7
42.5°	1134.5	1133.1	1134.5	1136.0	1136.0	1141.7	1146.0	1140.3	1137.4	1130.2	1136.0
45°	1070.0	1067.1	1070.0	1072.8	1074.3	1077.2	1090.1	1090.1	1085.8	1074.3	1082.9
47.5°	1001.1	994.0	1001.1	1009.7	1009.7	1014.0	1027.0	1037.0	1029.8	1015.5	1019.8
50°	928.0	929.4	928.0	933.7	933.7	949.5	959.5	969.6	976.8	959.5	939.5
52.5°	856.3	854.8	856.3	860.6	866.3	873.5	890.7	900.7	912.2	902.2	870.6
55°	784.6	787.4	784.6	786.0	788.9	793.2	819.0	829.0	850.5	837.6	804.6
57.5°	712.8	708.5	712.8	715.7	717.1	721.4	743.0	761.6	774.5	776.0	735.8
60°	629.7	623.9	629.7	642.6	645.4	648.3	668.4	685.6	697.1	701.4	659.8
62.5°	556.5	546.5	556.5	565.1	570.8	578.0	592.4	618.2	628.2	629.7	570.8
65°	479.1	474.7	479.1	496.3	497.7	506.3	522.1	540.7	562.2	559.4	474.7
67.5°	408.8	408.8	408.8	420.2	428.9	433.2	453.2	461.8	489.1	492.0	395.9
70°	344.2	342.8	344.2	352.8	358.6	368.6	387.3	397.3	418.8	426.0	321.3
72.5°	282.6	281.1	282.6	289.7	295.5	304.1	319.8	331.3	350.0	358.6	249.6
75°	228.1	225.2	228.1	233.8	232.4	243.8	256.7	268.2	285.4	291.2	185.0
77.5°	175.0	175.0	175.0	180.7	180.7	192.2	197.9	212.3	222.3	230.9	136.3
80°	130.5	129.1	130.5	132.0	132.0	137.7	147.7	157.8	166.4	166.4	93.2
82.5°	91.8	88.9	91.8	91.8	91.8	94.7	100.4	103.3	109.0	113.3	58.8
85°	57.4	57.4	57.4	58.8	57.4	60.2	61.7	64.5	64.5	61.7	35.9
87.5°	37.3	35.9	37.3	35.9	35.9	34.4	34.4	34.4	33.0	31.6	20.1
90°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.6	110.8	126.5	111.1	80.2	57.1
95°	156.8	129.8	156.8	183.9	190.7	250.4	330.1	369.9	312.4	197.4	111.1
97.5°	375.8	324.3	375.8	427.2	440.1	477.9	528.3	553.4	457.6	265.9	122.1
100°	541.5	480.1	541.5	602.9	618.2	615.4	611.7	609.9	503.5	290.8	131.3
102.5°	704.4	651.8	704.4	757.0	770.1	722.0	657.9	625.8	518.0	302.3	140.5
105°	912.2	883.9	912.2	940.4	947.5	839.6	695.9	624.0	519.6	310.7	154.0
107.5°	1048.2	1055.1	1048.2	1041.4	1039.7	889.3	688.7	588.5	496.5	312.3	174.1
110°	1100.1	1129.6	1100.1	1070.7	1063.4	895.3	671.1	559.0	476.0	309.9	185.3



TEST NUMBER: P934342

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1104.8	1149.9	1104.8	1059.6	1048.3	876.3	646.9	532.1	458.1	310.0	199.0
115°	1075.4	1138.2	1075.4	1012.8	997.1	831.4	610.4	499.9	437.6	312.9	219.4
117.5°	1013.4	1082.9	1013.4	943.9	926.5	776.9	577.4	477.7	424.7	318.7	239.1
120°	963.3	1030.9	963.3	895.8	878.8	742.2	559.9	468.8	420.3	323.4	250.7
122.5°	914.6	981.1	914.6	848.0	831.3	708.3	544.1	462.0	418.0	330.2	264.3
125°	845.0	906.4	845.0	783.6	768.3	663.8	524.4	454.7	416.2	339.4	281.7
127.5°	782.5	834.3	782.5	730.6	717.7	627.9	508.3	448.5	415.2	348.5	298.6
130°	745.6	793.4	745.6	697.8	685.9	605.9	499.3	446.1	415.8	355.2	309.8
132.5°	712.2	755.0	712.2	669.3	658.6	587.1	491.8	444.1	416.2	360.7	319.0
135°	666.4	703.3	666.4	629.5	620.2	560.3	480.5	440.5	415.8	366.6	329.6
137.5°	629.7	659.9	629.7	599.3	591.8	541.1	473.6	439.8	418.3	375.4	343.2
140°	604.3	632.6	604.3	576.1	569.0	525.3	467.0	437.8	418.8	380.9	352.4
142.5°	583.5	607.8	583.5	559.2	553.1	514.6	463.5	437.8	420.3	385.3	359.1
145°	552.2	570.6	552.2	533.7	529.2	497.7	455.8	434.9	420.3	391.4	369.6
147.5°	528.1	543.3	528.1	512.9	509.1	484.3	451.3	434.9	423.2	400.0	382.6
150°	513.0	525.3	513.0	500.6	497.5	476.7	448.8	434.9	424.7	404.6	389.4
152.5°	500.0	509.4	500.0	490.6	488.3	470.5	446.7	434.9	425.7	407.4	393.8
155°	485.2	491.3	485.2	479.0	477.4	463.3	444.3	434.9	427.9	413.9	403.5
157.5°	473.4	477.7	473.4	469.0	468.0	457.0	442.2	434.9	430.1	420.4	413.3
160°	466.3	468.8	466.3	463.8	463.3	453.8	441.2	434.9	431.1	423.4	417.7
162.5°	461.7	464.1	461.7	459.4	458.8	450.8	440.2	434.9	432.1	426.6	422.4
165°	455.1	457.6	455.1	452.7	452.0	446.3	438.7	434.9	433.6	431.1	429.2
167.5°	450.4	451.4	450.4	449.3	449.0	445.3	440.3	437.8	436.8	434.7	433.1
170°	449.0	449.0	449.0	449.0	449.0	445.3	440.3	437.8	437.7	437.6	437.6
172.5°	445.5	444.6	445.5	446.4	446.6	443.7	439.8	437.8	437.8	437.8	437.8
175°	443.4	443.4	443.4	443.4	443.4	441.6	439.1	437.8	438.4	439.7	440.5
177.5°	441.6	440.5	441.6	442.5	442.8	441.4	439.4	438.4	438.9	439.8	440.5
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5



TEST NUMBER: P934342

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1537.6	1529.0	1529.0	1514.6	1508.9	1504.6	1497.4	1475.9	1470.1	1464.4	1473.0
5°	1550.5	1534.7	1523.2	1497.4	1475.9	1467.3	1440.0	1388.4	1354.0	1328.2	1313.8
7.5°	1553.3	1533.3	1511.7	1471.6	1419.9	1397.0	1313.8	1219.1	1193.3	1170.4	1156.0
10°	1550.5	1527.5	1497.4	1437.2	1315.2	1275.1	1191.9	1130.2	1114.4	1110.1	1114.4
12.5°	1540.4	1518.9	1477.3	1376.9	1206.2	1179.0	1130.2	1094.4	1091.5	1098.7	1137.4
15°	1523.2	1503.1	1454.4	1296.6	1146.0	1125.9	1091.5	1078.6	1094.4	1144.6	1260.7
17.5°	1506.0	1483.1	1422.8	1217.7	1100.1	1085.8	1061.4	1087.2	1176.1	1243.5	1282.3
20°	1483.1	1455.8	1387.0	1160.3	1067.1	1054.2	1042.7	1158.9	1226.3	1250.7	1272.2
22.5°	1455.8	1427.1	1338.2	1120.2	1032.7	1022.6	1029.8	1199.1	1226.3	1243.5	1262.2
25°	1419.9	1395.6	1280.8	1088.6	1005.4	994.0	1021.2	1194.8	1210.5	1214.8	1252.1
27.5°	1387.0	1355.4	1220.6	1059.9	972.4	968.1	1028.4	1176.1	1187.6	1191.9	1232.1
30°	1346.8	1299.5	1153.2	1029.8	938.0	936.6	1029.8	1153.2	1150.3	1161.8	1201.9
32.5°	1305.2	1216.3	1077.2	992.5	905.0	903.6	1019.8	1118.7	1115.9	1131.7	1161.8
35°	1266.5	1151.7	973.9	949.5	863.4	864.9	995.4	1078.6	1080.0	1094.4	1113.0
37.5°	1226.3	1095.8	860.6	902.2	823.3	823.3	962.4	1041.3	1038.4	1042.7	1068.5
40°	1179.0	1008.3	760.2	840.5	786.0	781.7	922.2	1001.1	991.1	989.7	1025.5
42.5°	1128.8	912.2	685.6	758.7	743.0	737.2	873.5	952.4	933.7	938.0	983.9
45°	1074.3	886.4	628.2	641.1	698.5	694.2	820.4	896.4	883.5	895.0	942.3
47.5°	1019.8	834.8	609.6	532.1	651.2	649.7	761.6	841.9	834.8	846.2	896.4
50°	945.2	777.4	608.1	456.1	598.1	603.8	691.3	788.9	788.9	798.9	852.0
52.5°	849.1	707.1	552.2	413.1	536.4	553.6	629.7	743.0	745.8	755.9	803.2
55°	761.6	634.0	512.0	380.1	463.3	500.6	569.4	695.6	701.4	711.4	754.4
57.5°	681.3	527.8	503.4	341.4	395.9	431.7	516.3	649.7	652.6	661.2	702.8
60°	595.2	381.5	461.8	299.8	337.1	364.3	467.6	595.2	605.3	611.0	646.9
62.5°	497.7	276.8	418.8	271.1	308.4	314.1	427.4	543.6	556.5	560.8	582.3
65°	354.3	232.4	355.7	246.7	278.3	279.7	384.4	490.5	502.0	509.2	524.9
67.5°	239.5	189.3	271.1	223.7	255.3	256.7	342.8	428.9	444.6	450.4	460.4
70°	166.4	126.2	200.8	199.4	229.5	232.4	298.3	372.9	387.3	391.6	397.3
72.5°	121.9	101.8	166.4	179.3	202.2	205.1	252.4	309.8	324.1	328.5	331.3
75°	93.2	107.6	134.8	156.3	172.1	173.5	206.5	252.4	262.5	265.3	266.8
77.5°	74.6	100.4	99.0	126.2	140.6	137.7	162.1	195.1	203.7	203.7	203.7
80°	55.9	78.9	74.6	90.4	103.3	100.4	116.2	139.1	142.0	144.9	143.4
82.5°	41.6	50.2	50.2	57.4	68.8	66.0	77.5	90.4	90.4	90.4	93.2
85°	25.8	28.7	22.9	30.1	38.7	37.3	43.0	48.8	50.2	50.2	47.3
87.5°	15.8	12.9	7.2	11.5	17.2	17.2	20.1	21.5	20.1	20.1	20.1
90°	7.7	5.4	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9
92.5°	52.0	31.9	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.6
95°	101.9	65.1	28.4	65.1	101.9	111.1	197.4	312.4	369.9	330.1	250.4
97.5°	114.0	81.6	49.1	81.6	114.0	122.1	265.9	457.6	553.4	528.3	477.9
100°	123.9	94.5	65.0	94.5	123.9	131.3	290.8	503.5	609.9	611.7	615.4
102.5°	133.6	106.1	78.6	106.1	133.6	140.5	302.3	518.0	625.8	657.9	722.0
105°	148.2	125.0	101.7	125.0	148.2	154.0	310.7	519.6	624.0	695.9	839.6
107.5°	168.7	147.1	125.4	147.1	168.7	174.1	312.3	496.5	588.5	688.7	889.3
110°	180.4	160.8	141.3	160.8	180.4	185.3	309.9	476.0	559.0	671.1	895.3



TEST NUMBER: P934342

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.3	175.7	157.0	175.7	194.3	199.0	310.0	458.1	532.1	646.9	876.3
115°	215.0	197.8	180.6	197.8	215.0	219.4	312.9	437.6	499.9	610.4	831.4
117.5°	235.2	219.6	204.0	219.6	235.2	239.1	318.7	424.7	477.7	577.4	776.9
120°	247.0	232.3	217.5	232.3	247.0	250.7	323.4	420.3	468.8	559.9	742.2
122.5°	260.6	245.7	230.9	245.7	260.6	264.3	330.2	418.0	462.0	544.1	708.3
125°	278.3	264.8	251.3	264.8	278.3	281.7	339.4	416.2	454.7	524.4	663.8
127.5°	295.2	281.5	267.8	281.5	295.2	298.6	348.5	415.2	448.5	508.3	627.9
130°	306.2	291.4	276.7	291.4	306.2	309.8	355.2	415.8	446.1	499.3	605.9
132.5°	315.4	300.6	285.9	300.6	315.4	319.0	360.7	416.2	444.1	491.8	587.1
135°	326.3	312.9	299.5	312.9	326.3	329.6	366.6	415.8	440.5	480.5	560.3
137.5°	339.8	326.6	313.3	326.6	339.8	343.2	375.4	418.3	439.8	473.6	541.1
140°	349.3	337.2	324.9	337.2	349.3	352.4	380.9	418.8	437.8	467.0	525.3
142.5°	356.3	345.0	333.7	345.0	356.3	359.1	385.3	420.3	437.8	463.5	514.6
145°	367.1	357.2	347.4	357.2	367.1	369.6	391.4	420.3	434.9	455.8	497.7
147.5°	380.2	370.5	361.0	370.5	380.2	382.6	400.0	423.2	434.9	451.3	484.3
150°	387.2	378.6	369.9	378.6	387.2	389.4	404.6	424.7	434.9	448.8	476.7
152.5°	392.1	385.5	378.9	385.5	392.1	393.8	407.4	425.7	434.9	446.7	470.5
155°	402.3	397.5	392.6	397.5	402.3	403.5	413.9	427.9	434.9	444.3	463.3
157.5°	412.1	407.3	402.7	407.3	412.1	413.3	420.4	430.1	434.9	442.2	457.0
160°	416.7	413.1	409.4	413.1	416.7	417.7	423.4	431.1	434.9	441.2	453.8
162.5°	421.8	419.0	416.2	419.0	421.8	422.4	426.6	432.1	434.9	440.2	450.8
165°	428.6	426.1	423.6	426.1	428.6	429.2	431.1	433.6	434.9	438.7	446.3
167.5°	432.8	431.5	430.4	431.5	432.8	433.1	434.7	436.8	437.8	440.3	445.3
170°	437.3	436.0	434.9	436.0	437.3	437.6	437.6	437.7	437.8	440.3	445.3
172.5°	437.7	437.6	437.3	437.6	437.7	437.8	437.8	437.8	437.8	439.8	443.7
175°	440.5	440.5	440.5	440.5	440.5	440.5	439.7	438.4	437.8	439.1	441.6
177.5°	440.5	440.5	440.5	440.5	440.5	440.5	439.8	438.9	438.4	439.4	441.4
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5



TEST NUMBER: P934342

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1463.0	1458.7	1464.4	1448.6	1464.4	1458.7	1463.0	1473.0	1464.4	1470.1	1475.9
5°	1283.7	1276.5	1253.6	1234.9	1253.6	1276.5	1283.7	1313.8	1328.2	1354.0	1388.4
7.5°	1147.4	1141.7	1136.0	1124.5	1136.0	1141.7	1147.4	1156.0	1170.4	1193.3	1219.1
10°	1117.3	1118.7	1127.4	1125.9	1127.4	1118.7	1117.3	1114.4	1110.1	1114.4	1130.2
12.5°	1194.8	1207.7	1255.0	1252.1	1255.0	1207.7	1194.8	1137.4	1098.7	1091.5	1094.4
15°	1283.7	1288.0	1298.0	1299.5	1298.0	1288.0	1283.7	1260.7	1144.6	1094.4	1078.6
17.5°	1292.3	1293.7	1300.9	1300.9	1300.9	1293.7	1292.3	1282.3	1243.5	1176.1	1087.2
20°	1285.1	1288.0	1302.3	1305.2	1302.3	1288.0	1285.1	1272.2	1250.7	1226.3	1158.9
22.5°	1282.3	1288.0	1299.5	1298.0	1299.5	1288.0	1282.3	1262.2	1243.5	1226.3	1199.1
25°	1267.9	1267.9	1269.3	1270.8	1269.3	1267.9	1267.9	1252.1	1214.8	1210.5	1194.8
27.5°	1237.8	1240.7	1249.3	1247.8	1249.3	1240.7	1237.8	1232.1	1191.9	1187.6	1176.1
30°	1210.5	1207.7	1200.5	1194.8	1200.5	1207.7	1210.5	1201.9	1161.8	1150.3	1153.2
32.5°	1164.6	1157.5	1150.3	1146.0	1150.3	1157.5	1164.6	1161.8	1131.7	1115.9	1118.7
35°	1110.1	1111.6	1110.1	1105.8	1110.1	1111.6	1110.1	1113.0	1094.4	1080.0	1078.6
37.5°	1071.4	1074.3	1072.8	1067.1	1072.8	1074.3	1071.4	1068.5	1042.7	1038.4	1041.3
40°	1031.3	1032.7	1031.3	1027.0	1031.3	1032.7	1031.3	1025.5	989.7	991.1	1001.1
42.5°	992.5	991.1	986.8	983.9	986.8	991.1	992.5	983.9	938.0	933.7	952.4
45°	948.1	949.5	940.9	936.6	940.9	949.5	948.1	942.3	895.0	883.5	896.4
47.5°	903.6	903.6	896.4	892.1	896.4	903.6	903.6	896.4	846.2	834.8	841.9
50°	856.3	854.8	844.8	843.4	844.8	854.8	856.3	852.0	798.9	788.9	788.9
52.5°	801.8	801.8	803.2	806.1	803.2	801.8	801.8	803.2	755.9	745.8	743.0
55°	754.4	755.9	765.9	768.8	765.9	755.9	754.4	754.4	711.4	701.4	695.6
57.5°	705.7	705.7	712.8	712.8	712.8	705.7	705.7	702.8	661.2	652.6	649.7
60°	649.7	652.6	658.3	656.9	658.3	652.6	649.7	646.9	611.0	605.3	595.2
62.5°	590.9	593.8	595.2	592.4	595.2	593.8	590.9	582.3	560.8	556.5	543.6
65°	529.3	532.1	533.6	530.7	533.6	532.1	529.3	524.9	509.2	502.0	490.5
67.5°	466.1	464.7	463.3	469.0	463.3	464.7	466.1	460.4	450.4	444.6	428.9
70°	401.6	401.6	400.2	403.0	400.2	401.6	401.6	397.3	391.6	387.3	372.9
72.5°	332.8	331.3	337.1	332.8	337.1	331.3	332.8	331.3	328.5	324.1	309.8
75°	265.3	268.2	265.3	269.6	265.3	268.2	265.3	266.8	265.3	262.5	252.4
77.5°	202.2	205.1	202.2	202.2	202.2	205.1	202.2	203.7	203.7	203.7	195.1
80°	143.4	142.0	142.0	140.6	142.0	142.0	143.4	143.4	144.9	142.0	139.1
82.5°	91.8	90.4	90.4	93.2	90.4	90.4	91.8	93.2	90.4	90.4	90.4
85°	50.2	51.6	48.8	48.8	48.8	51.6	50.2	47.3	50.2	50.2	48.8
87.5°	18.6	17.2	17.2	17.2	17.2	17.2	18.6	20.1	20.1	20.1	21.5
90°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.6	110.8	126.5	111.1
95°	190.7	183.9	156.8	129.8	156.8	183.9	190.7	250.4	330.1	369.9	312.4
97.5°	440.1	427.2	375.8	324.3	375.8	427.2	440.1	477.9	528.3	553.4	457.6
100°	618.2	602.9	541.5	480.1	541.5	602.9	618.2	615.4	611.7	609.9	503.5
102.5°	770.1	757.0	704.4	651.8	704.4	757.0	770.1	722.0	657.9	625.8	518.0
105°	947.5	940.4	912.2	883.9	912.2	940.4	947.5	839.6	695.9	624.0	519.6
107.5°	1039.7	1041.4	1048.2	1055.1	1048.2	1041.4	1039.7	889.3	688.7	588.5	496.5
110°	1063.4	1070.7	1100.1	1129.6	1100.1	1070.7	1063.4	895.3	671.1	559.0	476.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1048.3	1059.6	1104.8	1149.9	1104.8	1059.6	1048.3	876.3	646.9	532.1	458.1
115°	997.1	1012.8	1075.4	1138.2	1075.4	1012.8	997.1	831.4	610.4	499.9	437.6
117.5°	926.5	943.9	1013.4	1082.9	1013.4	943.9	926.5	776.9	577.4	477.7	424.7
120°	878.8	895.8	963.3	1030.9	963.3	895.8	878.8	742.2	559.9	468.8	420.3
122.5°	831.3	848.0	914.6	981.1	914.6	848.0	831.3	708.3	544.1	462.0	418.0
125°	768.3	783.6	845.0	906.4	845.0	783.6	768.3	663.8	524.4	454.7	416.2
127.5°	717.7	730.6	782.5	834.3	782.5	730.6	717.7	627.9	508.3	448.5	415.2
130°	685.9	697.8	745.6	793.4	745.6	697.8	685.9	605.9	499.3	446.1	415.8
132.5°	658.6	669.3	712.2	755.0	712.2	669.3	658.6	587.1	491.8	444.1	416.2
135°	620.2	629.5	666.4	703.3	666.4	629.5	620.2	560.3	480.5	440.5	415.8
137.5°	591.8	599.3	629.7	659.9	629.7	599.3	591.8	541.1	473.6	439.8	418.3
140°	569.0	576.1	604.3	632.6	604.3	576.1	569.0	525.3	467.0	437.8	418.8
142.5°	553.1	559.2	583.5	607.8	583.5	559.2	553.1	514.6	463.5	437.8	420.3
145°	529.2	533.7	552.2	570.6	552.2	533.7	529.2	497.7	455.8	434.9	420.3
147.5°	509.1	512.9	528.1	543.3	528.1	512.9	509.1	484.3	451.3	434.9	423.2
150°	497.5	500.6	513.0	525.3	513.0	500.6	497.5	476.7	448.8	434.9	424.7
152.5°	488.3	490.6	500.0	509.4	500.0	490.6	488.3	470.5	446.7	434.9	425.7
155°	477.4	479.0	485.2	491.3	485.2	479.0	477.4	463.3	444.3	434.9	427.9
157.5°	468.0	469.0	473.4	477.7	473.4	469.0	468.0	457.0	442.2	434.9	430.1
160°	463.3	463.8	466.3	468.8	466.3	463.8	463.3	453.8	441.2	434.9	431.1
162.5°	458.8	459.4	461.7	464.1	461.7	459.4	458.8	450.8	440.2	434.9	432.1
165°	452.0	452.7	455.1	457.6	455.1	452.7	452.0	446.3	438.7	434.9	433.6
167.5°	449.0	449.3	450.4	451.4	450.4	449.3	449.0	445.3	440.3	437.8	436.8
170°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	445.3	440.3	437.8	437.7
172.5°	446.6	446.4	445.5	444.6	445.5	446.4	446.6	443.7	439.8	437.8	437.8
175°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	441.6	439.1	437.8	438.4
177.5°	442.8	442.5	441.6	440.5	441.6	442.5	442.8	441.4	439.4	438.4	438.9
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1497.4	1504.6	1508.9	1514.6	1529.0
5°	1440.0	1467.3	1475.9	1497.4	1523.2
7.5°	1313.8	1397.0	1419.9	1471.6	1511.7
10°	1191.9	1275.1	1315.2	1437.2	1497.4
12.5°	1130.2	1179.0	1206.2	1376.9	1477.3
15°	1091.5	1125.9	1146.0	1296.6	1454.4
17.5°	1061.4	1085.8	1100.1	1217.7	1422.8
20°	1042.7	1054.2	1067.1	1160.3	1387.0
22.5°	1029.8	1022.6	1032.7	1120.2	1338.2
25°	1021.2	994.0	1005.4	1088.6	1280.8
27.5°	1028.4	968.1	972.4	1059.9	1220.6
30°	1029.8	936.6	938.0	1029.8	1153.2
32.5°	1019.8	903.6	905.0	992.5	1077.2
35°	995.4	864.9	863.4	949.5	973.9
37.5°	962.4	823.3	823.3	902.2	860.6
40°	922.2	781.7	786.0	840.5	760.2
42.5°	873.5	737.2	743.0	758.7	685.6
45°	820.4	694.2	698.5	641.1	628.2
47.5°	761.6	649.7	651.2	532.1	609.6
50°	691.3	603.8	598.1	456.1	608.1
52.5°	629.7	553.6	536.4	413.1	552.2
55°	569.4	500.6	463.3	380.1	512.0
57.5°	516.3	431.7	395.9	341.4	503.4
60°	467.6	364.3	337.1	299.8	461.8
62.5°	427.4	314.1	308.4	271.1	418.8
65°	384.4	279.7	278.3	246.7	355.7
67.5°	342.8	256.7	255.3	223.7	271.1
70°	298.3	232.4	229.5	199.4	200.8
72.5°	252.4	205.1	202.2	179.3	166.4
75°	206.5	173.5	172.1	156.3	134.8
77.5°	162.1	137.7	140.6	126.2	99.0
80°	116.2	100.4	103.3	90.4	74.6
82.5°	77.5	66.0	68.8	57.4	50.2
85°	43.0	37.3	38.7	30.1	22.9
87.5°	20.1	17.2	17.2	11.5	7.2
90°	13.0	8.3	7.7	5.4	3.0
92.5°	80.2	57.1	52.0	31.9	11.9
95°	197.4	111.1	101.9	65.1	28.4
97.5°	265.9	122.1	114.0	81.6	49.1
100°	290.8	131.3	123.9	94.5	65.0
102.5°	302.3	140.5	133.6	106.1	78.6
105°	310.7	154.0	148.2	125.0	101.7
107.5°	312.3	174.1	168.7	147.1	125.4
110°	309.9	185.3	180.4	160.8	141.3



TEST NUMBER: P934342

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.0	199.0	194.3	175.7	157.0
115°	312.9	219.4	215.0	197.8	180.6
117.5°	318.7	239.1	235.2	219.6	204.0
120°	323.4	250.7	247.0	232.3	217.5
122.5°	330.2	264.3	260.6	245.7	230.9
125°	339.4	281.7	278.3	264.8	251.3
127.5°	348.5	298.6	295.2	281.5	267.8
130°	355.2	309.8	306.2	291.4	276.7
132.5°	360.7	319.0	315.4	300.6	285.9
135°	366.6	329.6	326.3	312.9	299.5
137.5°	375.4	343.2	339.8	326.6	313.3
140°	380.9	352.4	349.3	337.2	324.9
142.5°	385.3	359.1	356.3	345.0	333.7
145°	391.4	369.6	367.1	357.2	347.4
147.5°	400.0	382.6	380.2	370.5	361.0
150°	404.6	389.4	387.2	378.6	369.9
152.5°	407.4	393.8	392.1	385.5	378.9
155°	413.9	403.5	402.3	397.5	392.6
157.5°	420.4	413.3	412.1	407.3	402.7
160°	423.4	417.7	416.7	413.1	409.4
162.5°	426.6	422.4	421.8	419.0	416.2
165°	431.1	429.2	428.6	426.1	423.6
167.5°	434.7	433.1	432.8	431.5	430.4
170°	437.6	437.6	437.3	436.0	434.9
172.5°	437.8	437.8	437.7	437.6	437.3
175°	439.7	440.5	440.5	440.5	440.5
177.5°	439.8	440.5	440.5	440.5	440.5
180°	440.5	440.5	440.5	440.5	440.5



TEST NUMBER: P934342
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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	13.28	14.22	14.17	15.13	16.28	16.11	17.04	16.99	17.95	19.10
	3H	13.76	14.61	14.66	15.52	16.70	17.46	18.30	18.35	19.21	20.39
	4H	13.96	14.75	14.87	15.68	16.86	17.90	18.70	18.82	19.62	20.81
	6H	14.08	14.81	15.01	15.74	16.94	18.19	18.92	19.11	19.85	21.05
	8H	14.09	14.78	15.02	15.73	16.93	18.27	18.96	19.20	19.91	21.11
	12H	14.06	14.72	15.00	15.66	16.89	18.31	18.97	19.24	19.91	21.13
4H	2H	14.32	15.12	15.24	16.04	17.23	16.52	17.32	17.44	18.24	19.43
	3H	15.36	16.02	16.29	16.97	18.17	18.04	18.70	18.97	19.65	20.85
	4H	15.64	16.24	16.58	17.19	18.41	18.57	19.17	19.51	20.12	21.35
	6H	15.77	16.29	16.72	17.26	18.48	18.93	19.46	19.89	20.43	21.65
	8H	15.77	16.26	16.73	17.22	18.47	19.04	19.53	20.00	20.49	21.73
	12H	15.74	16.18	16.72	17.16	18.41	19.10	19.54	20.08	20.52	21.77
8H	4H	16.09	16.58	17.05	17.55	18.79	18.70	19.18	19.65	20.15	21.39
	6H	16.36	16.76	17.34	17.77	19.01	19.14	19.54	20.12	20.54	21.78
	8H	16.40	16.76	17.39	17.75	19.01	19.29	19.64	20.28	20.64	21.90
	12H	16.39	16.70	17.38	17.69	19.00	19.39	19.70	20.38	20.69	22.00
12H	4H	16.10	16.54	17.08	17.52	18.77	18.67	19.10	19.64	20.09	21.33
	6H	16.42	16.78	17.41	17.77	19.03	19.13	19.49	20.12	20.48	21.74
	8H	16.49	16.80	17.48	17.79	19.10	19.30	19.61	20.29	20.60	21.90