

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: P934361

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

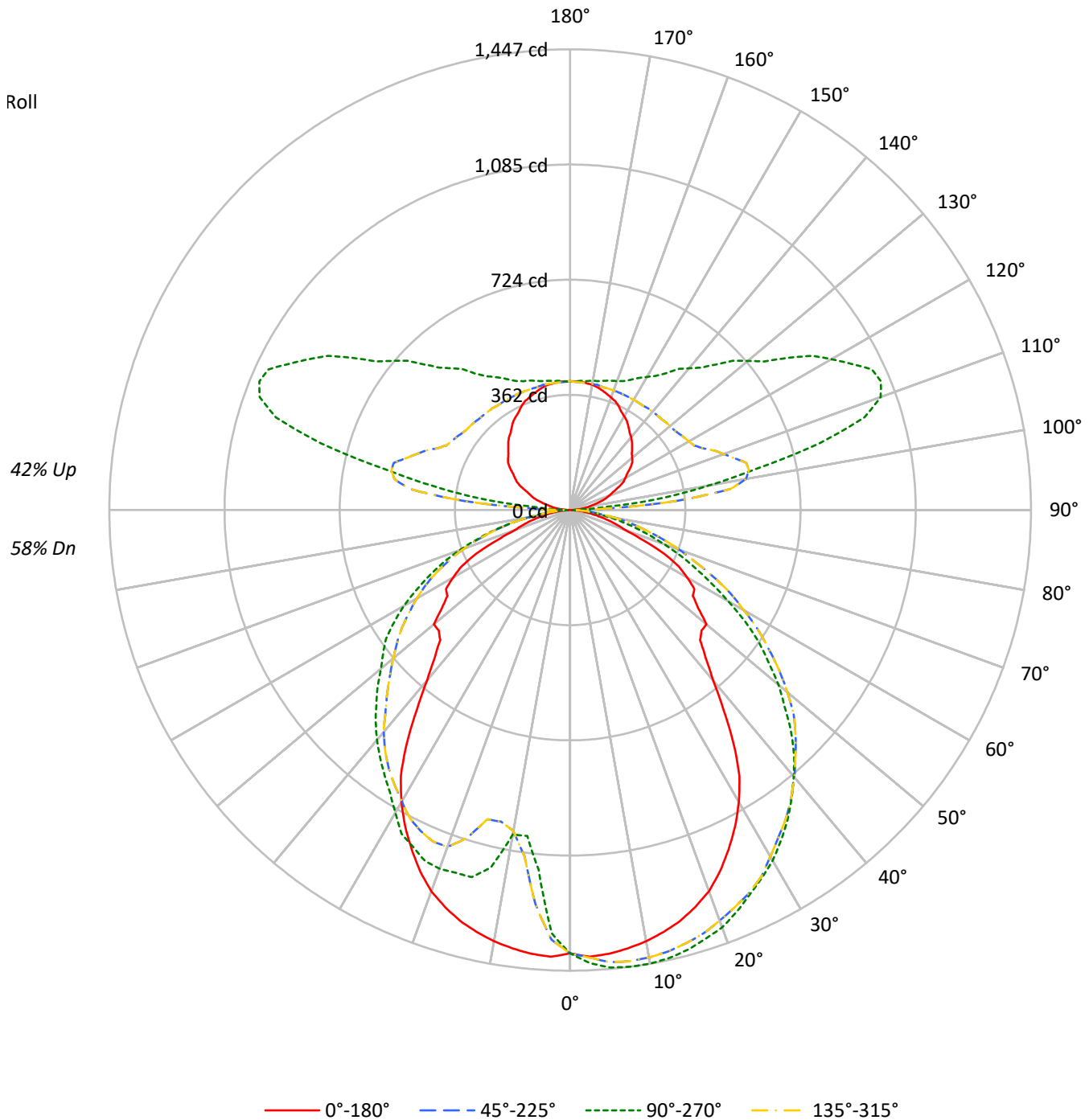
Test Method: LM-79-2019  
Report Number: P934361  
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6235.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

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

	0°	90°	180°	270°
0°	8614	8614	8614	8614
5°	8675	8696	8675	6837
10°	8614	8566	8614	6124
15°	8518	8380	8518	6998
20°	8336	8161	8336	7012
25°	7968	7840	7968	6864
30°	7494	7573	7494	6537
35°	6677	7237	6677	6179
40°	5561	6841	5561	5908
45°	4965	6377	4965	5597
50°	5271	5823	5271	5284
55°	4954	5227	4954	5103
60°	5101	4439	5101	4674
65°	4617	3670	4617	4102
70°	3189	2925	3189	3438
75°	2786	2161	2786	2589
80°	2230	1430	2230	1556
85°	1258	757	1258	644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7616 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.7	2.0
10°-20°	356.9	5.7
20°-30°	551.7	8.8
30°-40°	658.6	10.6
40°-50°	662.5	10.6
50°-60°	576.4	9.2
60°-70°	408.7	6.6
70°-80°	216.2	3.5
80°-90°	55.4	0.9
90°-100°	197.2	3.2
100°-110°	518.5	8.3
110°-120°	537.6	8.6
120°-130°	431.2	6.9
130°-140°	338.4	5.4
140°-150°	259.7	4.2
150°-160°	187.0	3.0
160°-170°	114.4	1.8
170°-180°	38.7	0.6
0°-30°	1034.3	16.6
0°-40°	1692.9	27.2
0°-60°	2931.8	47.0
0°-90°	3612.2	57.9
90°-120°	1253.4	20.1
90°-150°	2282.7	36.6
90°-180°	2623.0	42.1
0°-180°	6235.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1392	1392	1392	1392	1392	
5°	1399	1443	1399	1134	1399	133
15°	1336	1429	1336	1194	1336	376
25°	1176	1333	1176	1167	1176	540
35°	894	1190	894	1016	894	553
45°	577	980	577	860	577	462
55°	470	723	470	706	470	432
65°	327	436	327	488	327	312
75°	124	207	124	248	124	130
85°	21	53	21	45	21	28
90°	3	10	3	10	3	3
95°	26	119	26	119	26	29
105°	94	812	94	812	94	99
115°	166	1045	166	1045	166	164
125°	231	832	231	832	231	205
135°	275	646	275	646	275	213
145°	319	524	319	524	319	200
155°	361	451	361	451	361	166
165°	389	420	389	420	389	110
175°	405	407	405	407	405	38
180°	405	405	405	405	405	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1404.4	1404.4	1412.3	1414.9	1414.9	1411.0	1407.0	1411.0	1422.8	1426.8	1425.5
5°	1399.1	1409.7	1424.2	1426.8	1429.4	1428.1	1425.5	1428.1	1441.3	1443.9	1445.2
7.5°	1388.6	1408.4	1426.8	1430.8	1434.7	1430.8	1429.4	1432.1	1445.2	1447.9	1447.9
10°	1375.4	1403.1	1424.2	1426.8	1430.8	1426.8	1426.8	1432.1	1445.2	1447.9	1449.2
12.5°	1357.0	1395.2	1414.9	1417.6	1422.8	1421.5	1420.2	1425.5	1438.7	1441.3	1441.3
15°	1335.9	1380.7	1399.1	1401.8	1411.0	1408.4	1408.4	1413.6	1428.1	1432.1	1430.8
17.5°	1306.9	1362.2	1383.3	1387.3	1393.9	1392.5	1393.9	1399.1	1412.3	1414.9	1416.3
20°	1274.0	1337.2	1362.2	1366.2	1372.8	1372.8	1372.8	1379.4	1392.5	1397.8	1397.8
22.5°	1229.2	1310.9	1337.2	1339.8	1347.8	1347.8	1350.4	1359.6	1371.5	1372.8	1372.8
25°	1176.5	1281.9	1304.3	1312.2	1320.1	1324.0	1328.0	1333.3	1337.2	1335.9	1337.2
27.5°	1121.2	1245.0	1274.0	1279.2	1289.8	1293.7	1299.0	1300.3	1301.6	1305.6	1303.0
30°	1059.2	1193.6	1237.1	1242.4	1259.5	1262.1	1256.8	1259.5	1266.1	1268.7	1271.3
32.5°	989.4	1117.2	1198.9	1210.7	1226.5	1218.6	1217.3	1221.3	1231.8	1231.8	1234.5
35°	894.5	1057.9	1163.3	1173.8	1185.7	1176.5	1181.8	1183.1	1189.7	1193.6	1192.3
37.5°	790.5	1006.5	1126.4	1134.3	1143.5	1131.7	1139.6	1143.5	1148.8	1146.2	1146.2
40°	698.2	926.2	1082.9	1088.2	1096.1	1086.9	1094.8	1097.4	1100.1	1097.4	1096.1
42.5°	629.7	837.9	1036.8	1043.4	1038.2	1044.7	1047.4	1052.6	1048.7	1043.4	1043.4
45°	577.0	814.2	986.8	994.7	986.8	997.3	1001.3	1001.3	989.4	986.8	985.5
47.5°	559.9	766.8	936.7	936.7	932.8	945.9	952.5	943.3	931.4	927.5	927.5
50°	558.6	714.1	868.2	862.9	881.4	897.2	890.6	881.4	872.2	857.7	857.7
52.5°	507.2	649.5	779.9	799.7	828.7	837.9	827.4	818.1	802.3	795.7	790.5
55°	470.3	582.3	699.6	739.1	769.4	781.2	761.5	752.3	728.6	724.6	722.0
57.5°	462.4	484.8	625.8	675.9	712.7	711.4	699.6	682.4	662.7	658.7	657.4
60°	424.2	350.4	546.7	606.0	644.2	640.3	629.7	613.9	595.5	592.9	590.2
62.5°	384.7	254.3	457.2	524.3	578.4	577.0	567.8	544.1	530.9	524.3	519.1
65°	326.7	213.4	325.4	436.1	513.8	516.4	496.7	479.6	465.1	457.2	455.8
67.5°	249.0	173.9	220.0	363.6	451.9	449.3	424.2	416.3	397.9	393.9	386.0
70°	184.4	115.9	152.8	295.1	391.3	384.7	364.9	355.7	338.6	329.4	324.1
72.5°	152.8	93.5	112.0	229.2	329.4	321.5	304.3	293.8	279.3	271.4	266.1
75°	123.8	98.8	85.6	170.0	267.4	262.2	246.4	235.8	224.0	213.4	214.7
77.5°	90.9	92.2	68.5	125.2	212.1	204.2	195.0	181.8	176.5	166.0	166.0
80°	68.5	72.5	51.4	85.6	152.8	152.8	144.9	135.7	126.5	121.2	121.2
82.5°	46.1	46.1	38.2	54.0	104.1	100.1	94.9	92.2	87.0	84.3	84.3
85°	21.1	26.3	23.7	32.9	56.7	59.3	59.3	56.7	55.3	52.7	54.0
87.5°	6.6	11.9	14.5	18.4	29.0	30.3	31.6	31.6	31.6	32.9	32.9
90°	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.7	10.3	10.3
92.5°	10.9	29.3	47.8	52.4	73.7	102.1	116.2	101.8	73.1	51.6	49.5
95°	26.1	59.8	93.6	102.1	181.3	286.9	339.7	303.2	230.0	175.1	168.9
97.5°	45.1	74.9	104.7	112.2	244.3	420.4	508.4	485.3	439.0	404.3	392.4
100°	59.7	86.8	113.8	120.6	267.1	462.5	560.2	561.8	565.3	567.8	553.8
102.5°	72.2	97.5	122.7	129.0	277.6	475.8	574.8	604.3	663.2	707.4	695.4
105°	93.5	114.8	136.1	141.5	285.4	477.3	573.2	639.2	771.2	870.3	863.8
107.5°	115.1	135.1	154.9	159.9	286.9	456.0	540.6	632.6	816.8	955.0	956.6
110°	129.8	147.7	165.7	170.2	284.7	437.2	513.5	616.4	822.4	976.8	983.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	144.2	161.3	178.5	182.8	284.7	420.8	488.8	594.2	804.9	962.9	973.2
115°	165.9	181.7	197.5	201.5	287.4	401.9	459.2	560.7	763.7	915.9	930.3
117.5°	187.3	201.7	216.1	219.7	292.7	390.1	438.8	530.4	713.6	851.0	867.0
120°	199.8	213.3	226.9	230.3	297.0	386.1	430.6	514.3	681.7	807.2	822.8
122.5°	212.1	225.7	239.3	242.8	303.3	384.0	424.4	499.8	650.6	763.6	778.9
125°	230.8	243.2	255.7	258.7	311.7	382.3	417.6	481.7	609.7	705.7	719.8
127.5°	246.0	258.6	271.1	274.3	320.1	381.4	411.9	466.9	576.8	659.3	671.1
130°	254.2	267.7	281.2	284.6	326.3	381.9	409.7	458.6	556.6	630.0	641.0
132.5°	262.6	276.1	289.7	293.0	331.3	382.3	407.9	451.7	539.3	605.0	614.8
135°	275.1	287.4	299.7	302.8	336.7	382.0	404.6	441.3	514.7	569.7	578.2
137.5°	287.8	300.0	312.1	315.2	344.8	384.3	404.0	435.0	497.0	543.6	550.5
140°	298.4	309.7	320.8	323.7	349.8	384.7	402.2	429.0	482.5	522.7	529.2
142.5°	306.5	316.9	327.3	329.9	354.0	386.1	402.2	425.7	472.7	508.0	513.6
145°	319.1	328.1	337.2	339.5	359.5	386.1	399.5	418.7	457.2	486.1	490.3
147.5°	331.6	340.3	349.2	351.4	367.4	388.7	399.5	414.6	444.9	467.6	471.1
150°	339.7	347.7	355.6	357.6	371.6	390.1	399.5	412.3	437.8	457.0	459.8
152.5°	348.1	354.1	360.2	361.7	374.2	391.0	399.5	410.3	432.2	448.5	450.7
155°	360.6	365.1	369.5	370.6	380.2	393.0	399.5	408.1	425.5	438.5	439.9
157.5°	369.9	374.2	378.5	379.6	386.2	395.1	399.5	406.2	419.7	429.8	430.8
160°	376.1	379.4	382.8	383.6	388.9	395.9	399.5	405.2	416.8	425.5	426.1
162.5°	382.3	384.9	387.4	388.0	391.8	396.9	399.5	404.4	414.1	421.4	421.9
165°	389.1	391.4	393.7	394.3	396.0	398.3	399.5	403.0	409.9	415.2	415.8
167.5°	395.3	396.4	397.5	397.8	399.3	401.2	402.2	404.5	409.0	412.5	412.7
170°	399.5	400.5	401.6	401.9	402.0	402.1	402.2	404.5	409.0	412.5	412.5
172.5°	401.6	401.9	402.1	402.2	402.2	402.2	402.2	403.9	407.5	410.3	410.1
175°	404.6	404.6	404.6	404.6	403.8	402.7	402.2	403.3	405.6	407.3	407.3
177.5°	404.6	404.6	404.6	404.6	404.0	403.1	402.7	403.6	405.4	406.7	406.5
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1428.1	1424.2	1428.1	1425.5	1426.8	1422.8	1411.0	1407.0	1411.0	1414.9	1414.9
5°	1445.2	1442.6	1445.2	1445.2	1443.9	1441.3	1428.1	1425.5	1428.1	1429.4	1426.8
7.5°	1450.5	1446.6	1450.5	1447.9	1447.9	1445.2	1432.1	1429.4	1430.8	1434.7	1430.8
10°	1450.5	1446.6	1450.5	1449.2	1447.9	1445.2	1432.1	1426.8	1426.8	1430.8	1426.8
12.5°	1443.9	1441.3	1443.9	1441.3	1441.3	1438.7	1425.5	1420.2	1421.5	1422.8	1417.6
15°	1433.4	1429.4	1433.4	1430.8	1432.1	1428.1	1413.6	1408.4	1408.4	1411.0	1401.8
17.5°	1417.6	1412.3	1417.6	1416.3	1414.9	1412.3	1399.1	1393.9	1392.5	1393.9	1387.3
20°	1399.1	1395.2	1399.1	1397.8	1397.8	1392.5	1379.4	1372.8	1372.8	1372.8	1366.2
22.5°	1370.1	1366.2	1370.1	1372.8	1372.8	1371.5	1359.6	1350.4	1347.8	1347.8	1339.8
25°	1337.2	1333.3	1337.2	1337.2	1335.9	1337.2	1333.3	1328.0	1324.0	1320.1	1312.2
27.5°	1305.6	1303.0	1305.6	1303.0	1305.6	1301.6	1300.3	1299.0	1293.7	1289.8	1279.2
30°	1274.0	1271.3	1274.0	1271.3	1268.7	1266.1	1259.5	1256.8	1262.1	1259.5	1242.4
32.5°	1234.5	1231.8	1234.5	1234.5	1231.8	1231.8	1221.3	1217.3	1218.6	1226.5	1210.7
35°	1193.6	1189.7	1193.6	1192.3	1193.6	1189.7	1183.1	1181.8	1176.5	1185.7	1173.8
37.5°	1146.2	1142.2	1146.2	1146.2	1146.2	1148.8	1143.5	1139.6	1131.7	1143.5	1134.3
40°	1097.4	1092.2	1097.4	1096.1	1097.4	1100.1	1097.4	1094.8	1086.9	1096.1	1088.2
42.5°	1042.1	1040.8	1042.1	1043.4	1043.4	1048.7	1052.6	1047.4	1044.7	1038.2	1043.4
45°	982.8	980.2	982.8	985.5	986.8	989.4	1001.3	1001.3	997.3	986.8	994.7
47.5°	919.6	913.0	919.6	927.5	927.5	931.4	943.3	952.5	945.9	932.8	936.7
50°	852.4	853.7	852.4	857.7	857.7	872.2	881.4	890.6	897.2	881.4	862.9
52.5°	786.5	785.2	786.5	790.5	795.7	802.3	818.1	827.4	837.9	828.7	799.7
55°	720.6	723.3	720.6	722.0	724.6	728.6	752.3	761.5	781.2	769.4	739.1
57.5°	654.8	650.8	654.8	657.4	658.7	662.7	682.4	699.6	711.4	712.7	675.9
60°	578.4	573.1	578.4	590.2	592.9	595.5	613.9	629.7	640.3	644.2	606.0
62.5°	511.2	501.9	511.2	519.1	524.3	530.9	544.1	567.8	577.0	578.4	524.3
65°	440.0	436.1	440.0	455.8	457.2	465.1	479.6	496.7	516.4	513.8	436.1
67.5°	375.5	375.5	375.5	386.0	393.9	397.9	416.3	424.2	449.3	451.9	363.6
70°	316.2	314.9	316.2	324.1	329.4	338.6	355.7	364.9	384.7	391.3	295.1
72.5°	259.5	258.2	259.5	266.1	271.4	279.3	293.8	304.3	321.5	329.4	229.2
75°	209.5	206.8	209.5	214.7	213.4	224.0	235.8	246.4	262.2	267.4	170.0
77.5°	160.7	160.7	160.7	166.0	166.0	176.5	181.8	195.0	204.2	212.1	125.2
80°	119.9	118.6	119.9	121.2	121.2	126.5	135.7	144.9	152.8	152.8	85.6
82.5°	84.3	81.7	84.3	84.3	84.3	87.0	92.2	94.9	100.1	104.1	54.0
85°	52.7	52.7	52.7	54.0	52.7	55.3	56.7	59.3	59.3	56.7	32.9
87.5°	34.3	32.9	34.3	32.9	32.9	31.6	31.6	31.6	30.3	29.0	18.4
90°	10.3	10.3	10.3	10.3	10.3	13.7	18.4	20.6	17.7	11.9	7.6
92.5°	41.3	33.1	41.3	49.5	51.6	73.1	101.8	116.2	102.1	73.7	52.4
95°	144.0	119.2	144.0	168.9	175.1	230.0	303.2	339.7	286.9	181.3	102.1
97.5°	345.2	297.9	345.2	392.4	404.3	439.0	485.3	508.4	420.4	244.3	112.2
100°	497.4	441.0	497.4	553.8	567.8	565.3	561.8	560.2	462.5	267.1	120.6
102.5°	647.0	598.7	647.0	695.4	707.4	663.2	604.3	574.8	475.8	277.6	129.0
105°	837.9	811.9	837.9	863.8	870.3	771.2	639.2	573.2	477.3	285.4	141.5
107.5°	962.8	969.1	962.8	956.6	955.0	816.8	632.6	540.6	456.0	286.9	159.9
110°	1010.5	1037.5	1010.5	983.5	976.8	822.4	616.4	513.5	437.2	284.7	170.2





TEST NUMBER: P934361

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1014.8	1056.2	1014.8	973.2	962.9	804.9	594.2	488.8	420.8	284.7	182.8
115°	987.8	1045.4	987.8	930.3	915.9	763.7	560.7	459.2	401.9	287.4	201.5
117.5°	930.8	994.7	930.8	867.0	851.0	713.6	530.4	438.8	390.1	292.7	219.7
120°	884.8	946.9	884.8	822.8	807.2	681.7	514.3	430.6	386.1	297.0	230.3
122.5°	840.1	901.2	840.1	778.9	763.6	650.6	499.8	424.4	384.0	303.3	242.8
125°	776.2	832.5	776.2	719.8	705.7	609.7	481.7	417.6	382.3	311.7	258.7
127.5°	718.7	766.3	718.7	671.1	659.3	576.8	466.9	411.9	381.4	320.1	274.3
130°	684.9	728.8	684.9	641.0	630.0	556.6	458.6	409.7	381.9	326.3	284.6
132.5°	654.2	693.5	654.2	614.8	605.0	539.3	451.7	407.9	382.3	331.3	293.0
135°	612.1	646.0	612.1	578.2	569.7	514.7	441.3	404.6	382.0	336.7	302.8
137.5°	578.4	606.1	578.4	550.5	543.6	497.0	435.0	404.0	384.3	344.8	315.2
140°	555.1	581.1	555.1	529.2	522.7	482.5	429.0	402.2	384.7	349.8	323.7
142.5°	535.9	558.2	535.9	513.6	508.0	472.7	425.7	402.2	386.1	354.0	329.9
145°	507.2	524.1	507.2	490.3	486.1	457.2	418.7	399.5	386.1	359.5	339.5
147.5°	485.1	499.1	485.1	471.1	467.6	444.9	414.6	399.5	388.7	367.4	351.4
150°	471.2	482.5	471.2	459.8	457.0	437.8	412.3	399.5	390.1	371.6	357.6
152.5°	459.3	467.9	459.3	450.7	448.5	432.2	410.3	399.5	391.0	374.2	361.7
155°	445.6	451.3	445.6	439.9	438.5	425.5	408.1	399.5	393.0	380.2	370.6
157.5°	434.8	438.8	434.8	430.8	429.8	419.7	406.2	399.5	395.1	386.2	379.6
160°	428.3	430.6	428.3	426.1	425.5	416.8	405.2	399.5	395.9	388.9	383.6
162.5°	424.1	426.3	424.1	421.9	421.4	414.1	404.4	399.5	396.9	391.8	388.0
165°	418.1	420.4	418.1	415.8	415.2	409.9	403.0	399.5	398.3	396.0	394.3
167.5°	413.7	414.6	413.7	412.7	412.5	409.0	404.5	402.2	401.2	399.3	397.8
170°	412.5	412.5	412.5	412.5	412.5	409.0	404.5	402.2	402.1	402.0	401.9
172.5°	409.2	408.4	409.2	410.1	410.3	407.5	403.9	402.2	402.2	402.2	402.2
175°	407.3	407.3	407.3	407.3	407.3	405.6	403.3	402.2	402.7	403.8	404.6
177.5°	405.6	404.6	405.6	406.5	406.7	405.4	403.6	402.7	403.1	404.0	404.6
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934361

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1412.3	1404.4	1404.4	1391.2	1386.0	1382.0	1375.4	1355.7	1350.4	1345.1	1353.0
5°	1424.2	1409.7	1399.1	1375.4	1355.7	1347.8	1322.7	1275.3	1243.7	1220.0	1206.8
7.5°	1426.8	1408.4	1388.6	1351.7	1304.3	1283.2	1206.8	1119.8	1096.1	1075.0	1061.9
10°	1424.2	1403.1	1375.4	1320.1	1208.1	1171.2	1094.8	1038.2	1023.7	1019.7	1023.7
12.5°	1414.9	1395.2	1357.0	1264.8	1108.0	1082.9	1038.2	1005.2	1002.6	1009.2	1044.7
15°	1399.1	1380.7	1335.9	1191.0	1052.6	1034.2	1002.6	990.7	1005.2	1051.3	1158.0
17.5°	1383.3	1362.2	1306.9	1118.5	1010.5	997.3	974.9	998.6	1080.3	1142.2	1177.8
20°	1362.2	1337.2	1274.0	1065.8	980.2	968.3	957.8	1064.5	1126.4	1148.8	1168.6
22.5°	1337.2	1310.9	1229.2	1028.9	948.6	939.3	945.9	1101.4	1126.4	1142.2	1159.4
25°	1304.3	1281.9	1176.5	999.9	923.5	913.0	938.0	1097.4	1111.9	1115.9	1150.1
27.5°	1274.0	1245.0	1121.2	973.6	893.2	889.3	944.6	1080.3	1090.8	1094.8	1131.7
30°	1237.1	1193.6	1059.2	945.9	861.6	860.3	945.9	1059.2	1056.6	1067.1	1104.0
32.5°	1198.9	1117.2	989.4	911.7	831.3	830.0	936.7	1027.6	1025.0	1039.5	1067.1
35°	1163.3	1057.9	894.5	872.2	793.1	794.4	914.3	990.7	992.0	1005.2	1022.3
37.5°	1126.4	1006.5	790.5	828.7	756.2	756.2	884.0	956.5	953.8	957.8	981.5
40°	1082.9	926.2	698.2	772.0	722.0	718.0	847.1	919.6	910.4	909.0	942.0
42.5°	1036.8	837.9	629.7	696.9	682.4	677.2	802.3	874.8	857.7	861.6	903.8
45°	986.8	814.2	577.0	588.9	641.6	637.6	753.6	823.4	811.6	822.1	865.6
47.5°	936.7	766.8	559.9	488.8	598.1	596.8	699.6	773.3	766.8	777.3	823.4
50°	868.2	714.1	558.6	418.9	549.4	554.6	635.0	724.6	724.6	733.8	782.6
52.5°	779.9	649.5	507.2	379.4	492.7	508.5	578.4	682.4	685.1	694.3	737.8
55°	699.6	582.3	470.3	349.1	425.5	459.8	523.0	639.0	644.2	653.5	693.0
57.5°	625.8	484.8	462.4	313.6	363.6	396.6	474.3	596.8	599.4	607.3	645.6
60°	546.7	350.4	424.2	275.3	309.6	334.6	429.5	546.7	556.0	561.2	594.2
62.5°	457.2	254.3	384.7	249.0	283.3	288.5	392.6	499.3	511.2	515.1	534.9
65°	325.4	213.4	326.7	226.6	255.6	256.9	353.1	450.6	461.1	467.7	482.2
67.5°	220.0	173.9	249.0	205.5	234.5	235.8	314.9	393.9	408.4	413.7	422.9
70°	152.8	115.9	184.4	183.1	210.8	213.4	274.0	342.5	355.7	359.7	364.9
72.5°	112.0	93.5	152.8	164.7	185.8	188.4	231.9	284.6	297.7	301.7	304.3
75°	85.6	98.8	123.8	143.6	158.1	159.4	189.7	231.9	241.1	243.7	245.0
77.5°	68.5	92.2	90.9	115.9	129.1	126.5	148.9	179.2	187.1	187.1	187.1
80°	51.4	72.5	68.5	83.0	94.9	92.2	106.7	127.8	130.4	133.1	131.7
82.5°	38.2	46.1	46.1	52.7	63.2	60.6	71.1	83.0	83.0	83.0	85.6
85°	23.7	26.3	21.1	27.7	35.6	34.3	39.5	44.8	46.1	46.1	43.5
87.5°	14.5	11.9	6.6	10.5	15.8	15.8	18.4	19.8	18.4	18.4	18.4
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.7
92.5°	47.8	29.3	10.9	29.3	47.8	52.4	73.7	102.1	116.2	101.8	73.1
95°	93.6	59.8	26.1	59.8	93.6	102.1	181.3	286.9	339.7	303.2	230.0
97.5°	104.7	74.9	45.1	74.9	104.7	112.2	244.3	420.4	508.4	485.3	439.0
100°	113.8	86.8	59.7	86.8	113.8	120.6	267.1	462.5	560.2	561.8	565.3
102.5°	122.7	97.5	72.2	97.5	122.7	129.0	277.6	475.8	574.8	604.3	663.2
105°	136.1	114.8	93.5	114.8	136.1	141.5	285.4	477.3	573.2	639.2	771.2
107.5°	154.9	135.1	115.1	135.1	154.9	159.9	286.9	456.0	540.6	632.6	816.8
110°	165.7	147.7	129.8	147.7	165.7	170.2	284.7	437.2	513.5	616.4	822.4



TEST NUMBER: P934361

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	178.5	161.3	144.2	161.3	178.5	182.8	284.7	420.8	488.8	594.2	804.9
115°	197.5	181.7	165.9	181.7	197.5	201.5	287.4	401.9	459.2	560.7	763.7
117.5°	216.1	201.7	187.3	201.7	216.1	219.7	292.7	390.1	438.8	530.4	713.6
120°	226.9	213.3	199.8	213.3	226.9	230.3	297.0	386.1	430.6	514.3	681.7
122.5°	239.3	225.7	212.1	225.7	239.3	242.8	303.3	384.0	424.4	499.8	650.6
125°	255.7	243.2	230.8	243.2	255.7	258.7	311.7	382.3	417.6	481.7	609.7
127.5°	271.1	258.6	246.0	258.6	271.1	274.3	320.1	381.4	411.9	466.9	576.8
130°	281.2	267.7	254.2	267.7	281.2	284.6	326.3	381.9	409.7	458.6	556.6
132.5°	289.7	276.1	262.6	276.1	289.7	293.0	331.3	382.3	407.9	451.7	539.3
135°	299.7	287.4	275.1	287.4	299.7	302.8	336.7	382.0	404.6	441.3	514.7
137.5°	312.1	300.0	287.8	300.0	312.1	315.2	344.8	384.3	404.0	435.0	497.0
140°	320.8	309.7	298.4	309.7	320.8	323.7	349.8	384.7	402.2	429.0	482.5
142.5°	327.3	316.9	306.5	316.9	327.3	329.9	354.0	386.1	402.2	425.7	472.7
145°	337.2	328.1	319.1	328.1	337.2	339.5	359.5	386.1	399.5	418.7	457.2
147.5°	349.2	340.3	331.6	340.3	349.2	351.4	367.4	388.7	399.5	414.6	444.9
150°	355.6	347.7	339.7	347.7	355.6	357.6	371.6	390.1	399.5	412.3	437.8
152.5°	360.2	354.1	348.1	354.1	360.2	361.7	374.2	391.0	399.5	410.3	432.2
155°	369.5	365.1	360.6	365.1	369.5	370.6	380.2	393.0	399.5	408.1	425.5
157.5°	378.5	374.2	369.9	374.2	378.5	379.6	386.2	395.1	399.5	406.2	419.7
160°	382.8	379.4	376.1	379.4	382.8	383.6	388.9	395.9	399.5	405.2	416.8
162.5°	387.4	384.9	382.3	384.9	387.4	388.0	391.8	396.9	399.5	404.4	414.1
165°	393.7	391.4	389.1	391.4	393.7	394.3	396.0	398.3	399.5	403.0	409.9
167.5°	397.5	396.4	395.3	396.4	397.5	397.8	399.3	401.2	402.2	404.5	409.0
170°	401.6	400.5	399.5	400.5	401.6	401.9	402.0	402.1	402.2	404.5	409.0
172.5°	402.1	401.9	401.6	401.9	402.1	402.2	402.2	402.2	402.2	403.9	407.5
175°	404.6	404.6	404.6	404.6	404.6	404.6	403.8	402.7	402.2	403.3	405.6
177.5°	404.6	404.6	404.6	404.6	404.6	404.6	404.0	403.1	402.7	403.6	405.4
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934361  
 CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1343.8	1339.8	1345.1	1330.6	1345.1	1339.8	1343.8	1353.0	1345.1	1350.4	1355.7
5°	1179.1	1172.5	1151.5	1134.3	1151.5	1172.5	1179.1	1206.8	1220.0	1243.7	1275.3
7.5°	1054.0	1048.7	1043.4	1032.9	1043.4	1048.7	1054.0	1061.9	1075.0	1096.1	1119.8
10°	1026.3	1027.6	1035.5	1034.2	1035.5	1027.6	1026.3	1023.7	1019.7	1023.7	1038.2
12.5°	1097.4	1109.3	1152.8	1150.1	1152.8	1109.3	1097.4	1044.7	1009.2	1002.6	1005.2
15°	1179.1	1183.1	1192.3	1193.6	1192.3	1183.1	1179.1	1158.0	1051.3	1005.2	990.7
17.5°	1187.0	1188.3	1194.9	1194.9	1194.9	1188.3	1187.0	1177.8	1142.2	1080.3	998.6
20°	1180.4	1183.1	1196.2	1198.9	1196.2	1183.1	1180.4	1168.6	1148.8	1126.4	1064.5
22.5°	1177.8	1183.1	1193.6	1192.3	1193.6	1183.1	1177.8	1159.4	1142.2	1126.4	1101.4
25°	1164.6	1164.6	1165.9	1167.3	1165.9	1164.6	1164.6	1150.1	1115.9	1111.9	1097.4
27.5°	1137.0	1139.6	1147.5	1146.2	1147.5	1139.6	1137.0	1131.7	1094.8	1090.8	1080.3
30°	1111.9	1109.3	1102.7	1097.4	1102.7	1109.3	1111.9	1104.0	1067.1	1056.6	1059.2
32.5°	1069.8	1063.2	1056.6	1052.6	1056.6	1063.2	1069.8	1067.1	1039.5	1025.0	1027.6
35°	1019.7	1021.0	1019.7	1015.8	1019.7	1021.0	1019.7	1022.3	1005.2	992.0	990.7
37.5°	984.1	986.8	985.5	980.2	985.5	986.8	984.1	981.5	957.8	953.8	956.5
40°	947.2	948.6	947.2	943.3	947.2	948.6	947.2	942.0	909.0	910.4	919.6
42.5°	911.7	910.4	906.4	903.8	906.4	910.4	911.7	903.8	861.6	857.7	874.8
45°	870.8	872.2	864.2	860.3	864.2	872.2	870.8	865.6	822.1	811.6	823.4
47.5°	830.0	830.0	823.4	819.5	823.4	830.0	830.0	823.4	777.3	766.8	773.3
50°	786.5	785.2	776.0	774.7	776.0	785.2	786.5	782.6	733.8	724.6	724.6
52.5°	736.5	736.5	737.8	740.4	737.8	736.5	736.5	737.8	694.3	685.1	682.4
55°	693.0	694.3	703.5	706.2	703.5	694.3	693.0	693.0	653.5	644.2	639.0
57.5°	648.2	648.2	654.8	654.8	654.8	648.2	648.2	645.6	607.3	599.4	596.8
60°	596.8	599.4	604.7	603.4	604.7	599.4	596.8	594.2	561.2	556.0	546.7
62.5°	542.8	545.4	546.7	544.1	546.7	545.4	542.8	534.9	515.1	511.2	499.3
65°	486.1	488.8	490.1	487.5	490.1	488.8	486.1	482.2	467.7	461.1	450.6
67.5°	428.2	426.9	425.5	430.8	425.5	426.9	428.2	422.9	413.7	408.4	393.9
70°	368.9	368.9	367.6	370.2	367.6	368.9	368.9	364.9	359.7	355.7	342.5
72.5°	305.6	304.3	309.6	305.6	309.6	304.3	305.6	304.3	301.7	297.7	284.6
75°	243.7	246.4	243.7	247.7	243.7	246.4	243.7	245.0	243.7	241.1	231.9
77.5°	185.8	188.4	185.8	185.8	185.8	188.4	185.8	187.1	187.1	187.1	179.2
80°	131.7	130.4	130.4	129.1	130.4	130.4	131.7	131.7	133.1	130.4	127.8
82.5°	84.3	83.0	83.0	85.6	83.0	83.0	84.3	85.6	83.0	83.0	83.0
85°	46.1	47.4	44.8	44.8	44.8	47.4	46.1	43.5	46.1	46.1	44.8
87.5°	17.1	15.8	15.8	15.8	15.8	15.8	17.1	18.4	18.4	18.4	19.8
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.7	18.4	20.6	17.7
92.5°	51.6	49.5	41.3	33.1	41.3	49.5	51.6	73.1	101.8	116.2	102.1
95°	175.1	168.9	144.0	119.2	144.0	168.9	175.1	230.0	303.2	339.7	286.9
97.5°	404.3	392.4	345.2	297.9	345.2	392.4	404.3	439.0	485.3	508.4	420.4
100°	567.8	553.8	497.4	441.0	497.4	553.8	567.8	565.3	561.8	560.2	462.5
102.5°	707.4	695.4	647.0	598.7	647.0	695.4	707.4	663.2	604.3	574.8	475.8
105°	870.3	863.8	837.9	811.9	837.9	863.8	870.3	771.2	639.2	573.2	477.3
107.5°	955.0	956.6	962.8	969.1	962.8	956.6	955.0	816.8	632.6	540.6	456.0
110°	976.8	983.5	1010.5	1037.5	1010.5	983.5	976.8	822.4	616.4	513.5	437.2



TEST NUMBER: P934361

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	962.9	973.2	1014.8	1056.2	1014.8	973.2	962.9	804.9	594.2	488.8	420.8
115°	915.9	930.3	987.8	1045.4	987.8	930.3	915.9	763.7	560.7	459.2	401.9
117.5°	851.0	867.0	930.8	994.7	930.8	867.0	851.0	713.6	530.4	438.8	390.1
120°	807.2	822.8	884.8	946.9	884.8	822.8	807.2	681.7	514.3	430.6	386.1
122.5°	763.6	778.9	840.1	901.2	840.1	778.9	763.6	650.6	499.8	424.4	384.0
125°	705.7	719.8	776.2	832.5	776.2	719.8	705.7	609.7	481.7	417.6	382.3
127.5°	659.3	671.1	718.7	766.3	718.7	671.1	659.3	576.8	466.9	411.9	381.4
130°	630.0	641.0	684.9	728.8	684.9	641.0	630.0	556.6	458.6	409.7	381.9
132.5°	605.0	614.8	654.2	693.5	654.2	614.8	605.0	539.3	451.7	407.9	382.3
135°	569.7	578.2	612.1	646.0	612.1	578.2	569.7	514.7	441.3	404.6	382.0
137.5°	543.6	550.5	578.4	606.1	578.4	550.5	543.6	497.0	435.0	404.0	384.3
140°	522.7	529.2	555.1	581.1	555.1	529.2	522.7	482.5	429.0	402.2	384.7
142.5°	508.0	513.6	535.9	558.2	535.9	513.6	508.0	472.7	425.7	402.2	386.1
145°	486.1	490.3	507.2	524.1	507.2	490.3	486.1	457.2	418.7	399.5	386.1
147.5°	467.6	471.1	485.1	499.1	485.1	471.1	467.6	444.9	414.6	399.5	388.7
150°	457.0	459.8	471.2	482.5	471.2	459.8	457.0	437.8	412.3	399.5	390.1
152.5°	448.5	450.7	459.3	467.9	459.3	450.7	448.5	432.2	410.3	399.5	391.0
155°	438.5	439.9	445.6	451.3	445.6	439.9	438.5	425.5	408.1	399.5	393.0
157.5°	429.8	430.8	434.8	438.8	434.8	430.8	429.8	419.7	406.2	399.5	395.1
160°	425.5	426.1	428.3	430.6	428.3	426.1	425.5	416.8	405.2	399.5	395.9
162.5°	421.4	421.9	424.1	426.3	424.1	421.9	421.4	414.1	404.4	399.5	396.9
165°	415.2	415.8	418.1	420.4	418.1	415.8	415.2	409.9	403.0	399.5	398.3
167.5°	412.5	412.7	413.7	414.6	413.7	412.7	412.5	409.0	404.5	402.2	401.2
170°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	409.0	404.5	402.2	402.1
172.5°	410.3	410.1	409.2	408.4	409.2	410.1	410.3	407.5	403.9	402.2	402.2
175°	407.3	407.3	407.3	407.3	407.3	407.3	407.3	405.6	403.3	402.2	402.7
177.5°	406.7	406.5	405.6	404.6	405.6	406.5	406.7	405.4	403.6	402.7	403.1
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934361

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1375.4	1382.0	1386.0	1391.2	1404.4
5°	1322.7	1347.8	1355.7	1375.4	1399.1
7.5°	1206.8	1283.2	1304.3	1351.7	1388.6
10°	1094.8	1171.2	1208.1	1320.1	1375.4
12.5°	1038.2	1082.9	1108.0	1264.8	1357.0
15°	1002.6	1034.2	1052.6	1191.0	1335.9
17.5°	974.9	997.3	1010.5	1118.5	1306.9
20°	957.8	968.3	980.2	1065.8	1274.0
22.5°	945.9	939.3	948.6	1028.9	1229.2
25°	938.0	913.0	923.5	999.9	1176.5
27.5°	944.6	889.3	893.2	973.6	1121.2
30°	945.9	860.3	861.6	945.9	1059.2
32.5°	936.7	830.0	831.3	911.7	989.4
35°	914.3	794.4	793.1	872.2	894.5
37.5°	884.0	756.2	756.2	828.7	790.5
40°	847.1	718.0	722.0	772.0	698.2
42.5°	802.3	677.2	682.4	696.9	629.7
45°	753.6	637.6	641.6	588.9	577.0
47.5°	699.6	596.8	598.1	488.8	559.9
50°	635.0	554.6	549.4	418.9	558.6
52.5°	578.4	508.5	492.7	379.4	507.2
55°	523.0	459.8	425.5	349.1	470.3
57.5°	474.3	396.6	363.6	313.6	462.4
60°	429.5	334.6	309.6	275.3	424.2
62.5°	392.6	288.5	283.3	249.0	384.7
65°	353.1	256.9	255.6	226.6	326.7
67.5°	314.9	235.8	234.5	205.5	249.0
70°	274.0	213.4	210.8	183.1	184.4
72.5°	231.9	188.4	185.8	164.7	152.8
75°	189.7	159.4	158.1	143.6	123.8
77.5°	148.9	126.5	129.1	115.9	90.9
80°	106.7	92.2	94.9	83.0	68.5
82.5°	71.1	60.6	63.2	52.7	46.1
85°	39.5	34.3	35.6	27.7	21.1
87.5°	18.4	15.8	15.8	10.5	6.6
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.7	52.4	47.8	29.3	10.9
95°	181.3	102.1	93.6	59.8	26.1
97.5°	244.3	112.2	104.7	74.9	45.1
100°	267.1	120.6	113.8	86.8	59.7
102.5°	277.6	129.0	122.7	97.5	72.2
105°	285.4	141.5	136.1	114.8	93.5
107.5°	286.9	159.9	154.9	135.1	115.1
110°	284.7	170.2	165.7	147.7	129.8



TEST NUMBER: P934361

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	284.7	182.8	178.5	161.3	144.2
115°	287.4	201.5	197.5	181.7	165.9
117.5°	292.7	219.7	216.1	201.7	187.3
120°	297.0	230.3	226.9	213.3	199.8
122.5°	303.3	242.8	239.3	225.7	212.1
125°	311.7	258.7	255.7	243.2	230.8
127.5°	320.1	274.3	271.1	258.6	246.0
130°	326.3	284.6	281.2	267.7	254.2
132.5°	331.3	293.0	289.7	276.1	262.6
135°	336.7	302.8	299.7	287.4	275.1
137.5°	344.8	315.2	312.1	300.0	287.8
140°	349.8	323.7	320.8	309.7	298.4
142.5°	354.0	329.9	327.3	316.9	306.5
145°	359.5	339.5	337.2	328.1	319.1
147.5°	367.4	351.4	349.2	340.3	331.6
150°	371.6	357.6	355.6	347.7	339.7
152.5°	374.2	361.7	360.2	354.1	348.1
155°	380.2	370.6	369.5	365.1	360.6
157.5°	386.2	379.6	378.5	374.2	369.9
160°	388.9	383.6	382.8	379.4	376.1
162.5°	391.8	388.0	387.4	384.9	382.3
165°	396.0	394.3	393.7	391.4	389.1
167.5°	399.3	397.8	397.5	396.4	395.3
170°	402.0	401.9	401.6	400.5	399.5
172.5°	402.2	402.2	402.1	401.9	401.6
175°	403.8	404.6	404.6	404.6	404.6
177.5°	404.0	404.6	404.6	404.6	404.6
180°	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934361

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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	12.99	13.92	13.87	14.83	15.98	15.81	16.75	16.70	17.65	18.81
	3H	13.47	14.31	14.37	15.23	16.40	17.16	18.00	18.06	18.92	20.10
	4H	13.66	14.46	14.58	15.38	16.57	17.61	18.40	18.52	19.32	20.51
	6H	13.79	14.52	14.71	15.45	16.65	17.89	18.63	18.82	19.55	20.76
	8H	13.79	14.49	14.72	15.43	16.63	17.97	18.67	18.90	19.61	20.81
	12H	13.76	14.43	14.70	15.37	16.59	18.01	18.67	18.95	19.61	20.84
4H	2H	14.03	14.82	14.95	15.74	16.93	16.23	17.02	17.15	17.95	19.13
	3H	15.06	15.72	15.99	16.68	17.88	17.74	18.40	18.67	19.36	20.56
	4H	15.34	15.94	16.28	16.89	18.12	18.27	18.87	19.21	19.82	21.05
	6H	15.47	15.99	16.42	16.96	18.19	18.64	19.16	19.59	20.13	21.36
	8H	15.48	15.96	16.43	16.93	18.17	18.75	19.23	19.70	20.20	21.44
	12H	15.45	15.89	16.42	16.87	18.12	18.81	19.24	19.78	20.23	21.47
8H	4H	15.80	16.29	16.76	17.25	18.49	18.40	18.89	19.36	19.85	21.09
	6H	16.06	16.47	17.05	17.47	18.71	18.84	19.24	19.82	20.25	21.49
	8H	16.11	16.46	17.10	17.46	18.72	18.99	19.35	19.98	20.34	21.60
	12H	16.09	16.41	17.09	17.40	18.70	19.09	19.41	20.09	20.39	21.70
12H	4H	15.81	16.25	16.78	17.23	18.48	18.37	18.81	19.34	19.79	21.04
	6H	16.13	16.48	17.12	17.48	18.73	18.84	19.19	19.83	20.19	21.45
	8H	16.20	16.51	17.19	17.50	18.80	19.00	19.31	20.00	20.30	21.61