

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: P934739

Luminaire Tested: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

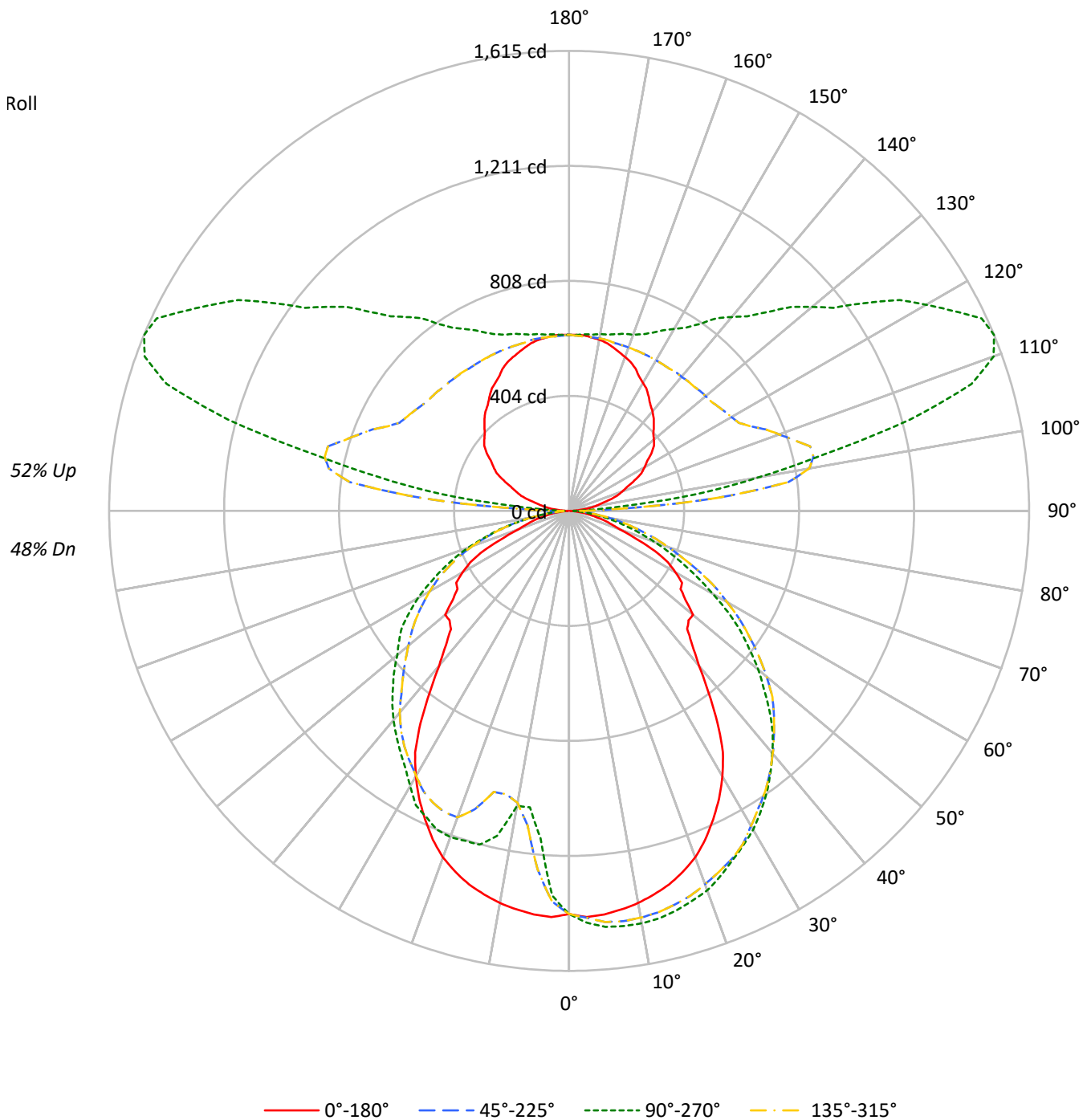
Test Method: LM-79-2019  
Report Number: P934739  
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7681.0 lumens  
Efficiency: N/A  
Efficacy: 120.8 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





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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°	8755	8755	8755	8755
5°	8817	8838	8817	6949
10°	8755	8705	8755	6224
15°	8657	8517	8657	7112
20°	8472	8293	8472	7127
25°	8099	7968	8099	6976
30°	7616	7697	7616	6644
35°	6786	7355	6786	6280
40°	5651	6952	5651	6005
45°	5047	6481	5047	5688
50°	5357	5918	5357	5370
55°	5035	5312	5035	5186
60°	5184	4511	5184	4750
65°	4693	3730	4693	4169
70°	3243	2972	3243	3494
75°	2833	2197	2833	2631
80°	2265	1452	2265	1581
85°	1276	770	1276	654

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7740 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	1.7
10°-20°	362.7	4.7
20°-30°	560.7	7.3
30°-40°	669.4	8.7
40°-50°	673.3	8.8
50°-60°	585.8	7.6
60°-70°	415.4	5.4
70°-80°	219.7	2.9
80°-90°	57.1	0.7
90°-100°	301.4	3.9
100°-110°	792.6	10.3
110°-120°	821.8	10.7
120°-130°	659.2	8.6
130°-140°	517.2	6.7
140°-150°	397.0	5.2
150°-160°	285.9	3.7
160°-170°	174.9	2.3
170°-180°	59.1	0.8
0°-30°	1051.2	13.7
0°-40°	1720.5	22.4
0°-60°	2979.6	38.8
0°-90°	3671.9	47.8
90°-120°	1915.8	24.9
90°-150°	3489.2	45.4
90°-180°	4009.0	52.2
0°-180°	7681.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1415	1415	1415	1415	1415	
5°	1422	1466	1422	1153	1422	135
15°	1358	1453	1358	1213	1358	382
25°	1196	1355	1196	1186	1196	549
35°	909	1209	909	1032	909	562
45°	586	996	586	874	586	470
55°	478	735	478	718	478	439
65°	332	443	332	495	332	317
75°	126	210	126	252	126	132
85°	21	54	21	46	21	29
90°	4	16	4	16	4	4
95°	40	182	40	182	40	44
105°	143	1241	143	1241	143	151
115°	254	1598	254	1598	254	250
125°	353	1273	353	1273	353	313
135°	420	987	420	987	420	325
145°	488	801	488	801	488	306
155°	551	690	551	690	551	253
165°	595	642	595	642	595	168
175°	618	623	618	623	618	59
180°	618	618	618	618	618	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1427.3	1427.3	1435.3	1438.0	1438.0	1434.0	1430.0	1434.0	1446.0	1450.1	1448.7
5°	1421.9	1432.7	1447.4	1450.1	1452.7	1451.4	1448.7	1451.4	1464.8	1467.5	1468.8
7.5°	1411.2	1431.3	1450.1	1454.1	1458.1	1454.1	1452.7	1455.4	1468.8	1471.5	1471.5
10°	1397.8	1426.0	1447.4	1450.1	1454.1	1450.1	1450.1	1455.4	1468.8	1471.5	1472.8
12.5°	1379.1	1417.9	1438.0	1440.7	1446.0	1444.7	1443.4	1448.7	1462.1	1464.8	1464.8
15°	1357.7	1403.2	1421.9	1424.6	1434.0	1431.3	1431.3	1436.7	1451.4	1455.4	1454.1
17.5°	1328.2	1384.5	1405.9	1409.9	1416.6	1415.2	1416.6	1421.9	1435.3	1438.0	1439.3
20°	1294.7	1359.0	1384.5	1388.5	1395.2	1395.2	1395.2	1401.9	1415.2	1420.6	1420.6
22.5°	1249.2	1332.2	1359.0	1361.7	1369.7	1369.7	1372.4	1381.8	1393.8	1395.2	1395.2
25°	1195.7	1302.8	1325.5	1333.6	1341.6	1345.6	1349.6	1355.0	1359.0	1357.7	1359.0
27.5°	1139.4	1265.3	1294.7	1300.1	1310.8	1314.8	1320.2	1321.5	1322.9	1326.9	1324.2
30°	1076.5	1213.1	1257.3	1262.6	1280.0	1282.7	1277.3	1280.0	1286.7	1289.4	1292.1
32.5°	1005.5	1135.4	1218.4	1230.5	1246.5	1238.5	1237.2	1241.2	1251.9	1251.9	1254.6
35°	909.1	1075.2	1182.3	1193.0	1205.0	1195.7	1201.0	1202.4	1209.1	1213.1	1211.7
37.5°	803.4	1022.9	1144.8	1152.8	1162.2	1150.1	1158.2	1162.2	1167.5	1164.9	1164.9
40°	709.6	941.3	1100.6	1106.0	1114.0	1104.6	1112.7	1115.3	1118.0	1115.3	1114.0
42.5°	640.0	851.6	1053.7	1060.4	1055.1	1061.8	1064.4	1069.8	1065.8	1060.4	1060.4
45°	586.5	827.5	1002.9	1010.9	1002.9	1013.6	1017.6	1017.6	1005.5	1002.9	1001.5
47.5°	569.0	779.3	952.0	952.0	948.0	961.4	968.0	958.7	946.6	942.6	942.6
50°	567.7	725.7	882.4	877.0	895.7	911.8	905.1	895.7	886.4	871.6	871.6
52.5°	515.5	660.1	792.6	812.7	842.2	851.6	840.8	831.5	815.4	808.7	803.4
55°	478.0	591.8	711.0	751.1	781.9	794.0	773.9	764.5	740.4	736.4	733.7
57.5°	470.0	492.7	636.0	686.9	724.4	723.0	711.0	693.6	673.5	669.5	668.1
60°	431.1	356.2	555.7	615.9	654.7	650.7	640.0	623.9	605.2	602.5	599.8
62.5°	391.0	258.4	464.6	532.9	587.8	586.5	577.1	553.0	539.6	532.9	527.5
65°	332.1	216.9	330.7	443.2	522.2	524.9	504.8	487.4	472.6	464.6	463.3
67.5°	253.1	176.7	223.6	369.5	459.3	456.6	431.1	423.1	404.4	400.3	392.3
70°	187.5	117.8	155.3	299.9	397.7	391.0	370.9	361.5	344.1	334.7	329.4
72.5°	155.3	95.1	113.8	233.0	334.7	326.7	309.3	298.6	283.9	275.8	270.5
75°	125.9	100.4	87.0	172.7	271.8	266.4	250.4	239.7	227.6	216.9	218.2
77.5°	92.4	93.7	69.6	127.2	215.6	207.5	198.2	184.8	179.4	168.7	168.7
80°	69.6	73.6	52.2	87.0	155.3	155.3	147.3	137.9	128.5	123.2	123.2
82.5°	46.9	46.9	38.8	54.9	105.8	101.8	96.4	93.7	88.4	85.7	85.7
85°	21.4	26.8	24.1	33.5	57.6	60.3	60.3	57.6	56.2	53.6	54.9
87.5°	6.7	12.1	14.7	18.7	29.5	30.8	32.1	32.1	32.1	33.5	33.5
90°	4.1	7.4	10.8	11.6	18.2	27.0	31.5	28.0	21.1	15.8	15.8
92.5°	16.6	44.8	73.0	80.1	112.6	155.9	177.6	155.7	111.8	78.8	75.7
95°	39.8	91.5	143.1	156.0	277.1	438.5	519.2	463.4	351.5	267.7	258.2
97.5°	68.9	114.4	160.0	171.4	373.3	642.4	777.0	741.7	671.1	618.1	599.9
100°	91.3	132.6	174.0	184.3	408.3	707.0	856.3	858.9	864.1	867.9	846.4
102.5°	110.4	149.0	187.5	197.2	424.4	727.2	878.7	923.7	1013.7	1081.2	1062.8
105°	142.8	175.5	208.2	216.3	436.2	729.5	876.2	977.1	1178.9	1330.3	1320.4
107.5°	176.0	206.5	236.9	244.5	438.5	697.0	826.4	967.2	1248.7	1459.8	1462.2
110°	198.4	225.9	253.3	260.2	435.1	668.3	784.9	942.2	1257.0	1493.0	1503.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.4	246.5	272.8	279.3	435.2	643.1	747.1	908.2	1230.2	1471.8	1487.6
115°	253.6	277.8	301.9	308.0	439.3	614.3	701.9	857.0	1167.3	1400.0	1421.9
117.5°	286.4	308.3	330.3	335.8	447.5	596.3	670.7	810.8	1090.8	1300.8	1325.2
120°	305.5	326.2	346.8	352.0	454.1	590.2	658.3	786.2	1042.0	1234.0	1257.7
122.5°	324.2	345.0	365.9	371.1	463.6	587.1	648.8	763.9	994.3	1167.1	1190.5
125°	352.8	371.8	390.8	395.5	476.5	584.4	638.4	736.2	932.0	1078.7	1100.2
127.5°	376.1	395.3	414.4	419.2	489.3	582.9	629.7	713.6	881.7	1007.8	1026.0
130°	388.5	409.2	429.8	435.0	498.8	583.9	626.4	701.2	850.8	963.0	979.7
132.5°	401.3	422.0	442.7	447.8	506.4	584.4	623.4	690.4	824.3	924.8	939.8
135°	420.4	439.3	458.1	462.8	514.7	583.9	618.4	674.5	786.7	870.8	883.7
137.5°	440.0	458.5	477.2	481.8	527.1	587.4	617.6	665.0	759.8	830.9	841.6
140°	456.1	473.3	490.5	494.8	534.8	588.1	614.7	655.6	737.6	799.0	808.9
142.5°	468.6	484.5	500.4	504.3	541.1	590.1	614.7	650.6	722.6	776.6	785.1
145°	487.7	501.6	515.3	518.8	549.4	590.2	610.6	640.0	698.8	742.9	749.4
147.5°	506.7	520.2	533.7	537.1	561.5	594.2	610.6	633.7	680.0	714.7	720.1
150°	519.2	531.4	543.6	546.6	568.0	596.4	610.6	630.1	669.2	698.6	702.9
152.5°	532.1	541.4	550.6	552.9	572.1	597.7	610.6	627.2	660.6	685.7	689.0
155°	551.2	558.0	564.8	566.5	581.2	600.7	610.6	623.9	650.5	670.4	672.5
157.5°	565.3	572.0	578.6	580.3	590.4	603.9	610.6	620.9	641.5	657.1	658.6
160°	574.8	580.0	585.2	586.5	594.5	605.2	610.6	619.4	637.1	650.4	651.3
162.5°	584.4	588.3	592.2	593.1	598.9	606.7	610.6	618.1	633.0	644.2	645.0
165°	594.8	598.3	601.8	602.7	605.3	608.8	610.6	615.9	626.6	634.7	635.5
167.5°	604.3	606.0	607.6	608.1	610.3	613.2	614.7	618.1	625.2	630.5	630.8
170°	610.6	612.2	613.9	614.3	614.4	614.6	614.7	618.1	625.2	630.5	630.5
172.5°	613.9	614.2	614.6	614.7	614.7	614.7	614.7	617.4	623.0	627.2	626.8
175°	618.4	618.4	618.4	618.4	617.2	615.5	614.7	616.4	619.9	622.6	622.6
177.5°	618.4	618.4	618.4	618.4	617.4	616.2	615.6	617.0	619.7	621.8	621.4
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1451.4	1447.4	1451.4	1448.7	1450.1	1446.0	1434.0	1430.0	1434.0	1438.0	1438.0
5°	1468.8	1466.1	1468.8	1468.8	1467.5	1464.8	1451.4	1448.7	1451.4	1452.7	1450.1
7.5°	1474.2	1470.1	1474.2	1471.5	1471.5	1468.8	1455.4	1452.7	1454.1	1458.1	1454.1
10°	1474.2	1470.1	1474.2	1472.8	1471.5	1468.8	1455.4	1450.1	1450.1	1454.1	1450.1
12.5°	1467.5	1464.8	1467.5	1464.8	1464.8	1462.1	1448.7	1443.4	1444.7	1446.0	1440.7
15°	1456.8	1452.7	1456.8	1454.1	1455.4	1451.4	1436.7	1431.3	1431.3	1434.0	1424.6
17.5°	1440.7	1435.3	1440.7	1439.3	1438.0	1435.3	1421.9	1416.6	1415.2	1416.6	1409.9
20°	1421.9	1417.9	1421.9	1420.6	1420.6	1415.2	1401.9	1395.2	1395.2	1395.2	1388.5
22.5°	1392.5	1388.5	1392.5	1395.2	1395.2	1393.8	1381.8	1372.4	1369.7	1369.7	1361.7
25°	1359.0	1355.0	1359.0	1359.0	1357.7	1359.0	1355.0	1349.6	1345.6	1341.6	1333.6
27.5°	1326.9	1324.2	1326.9	1324.2	1326.9	1322.9	1321.5	1320.2	1314.8	1310.8	1300.1
30°	1294.7	1292.1	1294.7	1292.1	1289.4	1286.7	1280.0	1277.3	1282.7	1280.0	1262.6
32.5°	1254.6	1251.9	1254.6	1254.6	1251.9	1251.9	1241.2	1237.2	1238.5	1246.5	1230.5
35°	1213.1	1209.1	1213.1	1211.7	1213.1	1209.1	1202.4	1201.0	1195.7	1205.0	1193.0
37.5°	1164.9	1160.9	1164.9	1164.9	1164.9	1167.5	1162.2	1158.2	1150.1	1162.2	1152.8
40°	1115.3	1110.0	1115.3	1114.0	1115.3	1118.0	1115.3	1112.7	1104.6	1114.0	1106.0
42.5°	1059.1	1057.8	1059.1	1060.4	1060.4	1065.8	1069.8	1064.4	1061.8	1055.1	1060.4
45°	998.8	996.2	998.8	1001.5	1002.9	1005.5	1017.6	1017.6	1013.6	1002.9	1010.9
47.5°	934.6	927.9	934.6	942.6	942.6	946.6	958.7	968.0	961.4	948.0	952.0
50°	866.3	867.6	866.3	871.6	871.6	886.4	895.7	905.1	911.8	895.7	877.0
52.5°	799.3	798.0	799.3	803.4	808.7	815.4	831.5	840.8	851.6	842.2	812.7
55°	732.4	735.1	732.4	733.7	736.4	740.4	764.5	773.9	794.0	781.9	751.1
57.5°	665.4	661.4	665.4	668.1	669.5	673.5	693.6	711.0	723.0	724.4	686.9
60°	587.8	582.4	587.8	599.8	602.5	605.2	623.9	640.0	650.7	654.7	615.9
62.5°	519.5	510.1	519.5	527.5	532.9	539.6	553.0	577.1	586.5	587.8	532.9
65°	447.2	443.2	447.2	463.3	464.6	472.6	487.4	504.8	524.9	522.2	443.2
67.5°	381.6	381.6	381.6	392.3	400.3	404.4	423.1	431.1	456.6	459.3	369.5
70°	321.3	320.0	321.3	329.4	334.7	344.1	361.5	370.9	391.0	397.7	299.9
72.5°	263.8	262.4	263.8	270.5	275.8	283.9	298.6	309.3	326.7	334.7	233.0
75°	212.9	210.2	212.9	218.2	216.9	227.6	239.7	250.4	266.4	271.8	172.7
77.5°	163.3	163.3	163.3	168.7	168.7	179.4	184.8	198.2	207.5	215.6	127.2
80°	121.8	120.5	121.8	123.2	123.2	128.5	137.9	147.3	155.3	155.3	87.0
82.5°	85.7	83.0	85.7	85.7	85.7	88.4	93.7	96.4	101.8	105.8	54.9
85°	53.6	53.6	53.6	54.9	53.6	56.2	57.6	60.3	60.3	57.6	33.5
87.5°	34.8	33.5	34.8	33.5	33.5	32.1	32.1	32.1	30.8	29.5	18.7
90°	15.8	15.8	15.8	15.8	15.8	21.1	28.0	31.5	27.0	18.2	11.6
92.5°	63.1	50.6	63.1	75.7	78.8	111.8	155.7	177.6	155.9	112.6	80.1
95°	220.2	182.2	220.2	258.2	267.7	351.5	463.4	519.2	438.5	277.1	156.0
97.5°	527.6	455.3	527.6	599.9	618.1	671.1	741.7	777.0	642.4	373.3	171.4
100°	760.2	674.0	760.2	846.4	867.9	864.1	858.9	856.3	707.0	408.3	184.3
102.5°	989.0	915.2	989.0	1062.8	1081.2	1013.7	923.7	878.7	727.2	424.4	197.2
105°	1280.6	1241.0	1280.6	1320.4	1330.3	1178.9	977.1	876.2	729.5	436.2	216.3
107.5°	1471.8	1481.3	1471.8	1462.2	1459.8	1248.7	967.2	826.4	697.0	438.5	244.5
110°	1544.6	1585.9	1544.6	1503.4	1493.0	1257.0	942.2	784.9	668.3	435.1	260.2





TEST NUMBER: P934739

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1551.1	1614.6	1551.1	1487.6	1471.8	1230.2	908.2	747.1	643.1	435.2	279.3
115°	1510.0	1598.0	1510.0	1421.9	1400.0	1167.3	857.0	701.9	614.3	439.3	308.0
117.5°	1422.7	1520.3	1422.7	1325.2	1300.8	1090.8	810.8	670.7	596.3	447.5	335.8
120°	1352.5	1447.3	1352.5	1257.7	1234.0	1042.0	786.2	658.3	590.2	454.1	352.0
122.5°	1284.0	1377.6	1284.0	1190.5	1167.1	994.3	763.9	648.8	587.1	463.6	371.1
125°	1186.5	1272.6	1186.5	1100.2	1078.7	932.0	736.2	638.4	584.4	476.5	395.5
127.5°	1098.6	1171.3	1098.6	1026.0	1007.8	881.7	713.6	629.7	582.9	489.3	419.2
130°	1046.9	1114.0	1046.9	979.7	963.0	850.8	701.2	626.4	583.9	498.8	435.0
132.5°	999.9	1060.1	999.9	939.8	924.8	824.3	690.4	623.4	584.4	506.4	447.8
135°	935.6	987.4	935.6	883.7	870.8	786.7	674.5	618.4	583.9	514.7	462.8
137.5°	884.0	926.5	884.0	841.6	830.9	759.8	665.0	617.6	587.4	527.1	481.8
140°	848.6	888.2	848.6	808.9	799.0	737.6	655.6	614.7	588.1	534.8	494.8
142.5°	819.2	853.3	819.2	785.1	776.6	722.6	650.6	614.7	590.1	541.1	504.3
145°	775.2	801.0	775.2	749.4	742.9	698.8	640.0	610.6	590.2	549.4	518.8
147.5°	741.4	762.8	741.4	720.1	714.7	680.0	633.7	610.6	594.2	561.5	537.1
150°	720.3	737.6	720.3	702.9	698.6	669.2	630.1	610.6	596.4	568.0	546.6
152.5°	702.0	715.2	702.0	689.0	685.7	660.6	627.2	610.6	597.7	572.1	552.9
155°	681.2	689.8	681.2	672.5	670.4	650.5	623.9	610.6	600.7	581.2	566.5
157.5°	664.6	670.7	664.6	658.6	657.1	641.5	620.9	610.6	603.9	590.4	580.3
160°	654.7	658.3	654.7	651.3	650.4	637.1	619.4	610.6	605.2	594.5	586.5
162.5°	648.3	651.6	648.3	645.0	644.2	633.0	618.1	610.6	606.7	598.9	593.1
165°	639.0	642.5	639.0	635.5	634.7	626.6	615.9	610.6	608.8	605.3	602.7
167.5°	632.3	633.8	632.3	630.8	630.5	625.2	618.1	614.7	613.2	610.3	608.1
170°	630.5	630.5	630.5	630.5	630.5	625.2	618.1	614.7	614.6	614.4	614.3
172.5°	625.5	624.2	625.5	626.8	627.2	623.0	617.4	614.7	614.7	614.7	614.7
175°	622.6	622.6	622.6	622.6	622.6	619.9	616.4	614.7	615.5	617.2	618.4
177.5°	619.9	618.4	619.9	621.4	621.8	619.7	617.0	615.6	616.2	617.4	618.4
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



TEST NUMBER: P934739

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1435.3	1427.3	1427.3	1413.9	1408.6	1404.5	1397.8	1377.8	1372.4	1367.0	1375.1
5°	1447.4	1432.7	1421.9	1397.8	1377.8	1369.7	1344.3	1296.1	1263.9	1239.8	1226.5
7.5°	1450.1	1431.3	1411.2	1373.7	1325.5	1304.1	1226.5	1138.1	1114.0	1092.6	1079.2
10°	1447.4	1426.0	1397.8	1341.6	1227.8	1190.3	1112.7	1055.1	1040.3	1036.3	1040.3
12.5°	1438.0	1417.9	1379.1	1285.4	1126.0	1100.6	1055.1	1021.6	1018.9	1025.6	1061.8
15°	1421.9	1403.2	1357.7	1210.4	1069.8	1051.1	1018.9	1006.9	1021.6	1068.5	1176.9
17.5°	1405.9	1384.5	1328.2	1136.8	1027.0	1013.6	990.8	1014.9	1097.9	1160.9	1197.0
20°	1384.5	1359.0	1294.7	1083.2	996.2	984.1	973.4	1081.9	1144.8	1167.5	1187.6
22.5°	1359.0	1332.2	1249.2	1045.7	964.0	954.7	961.4	1119.3	1144.8	1160.9	1178.3
25°	1325.5	1302.8	1195.7	1016.2	938.6	927.9	953.3	1115.3	1130.1	1134.1	1168.9
27.5°	1294.7	1265.3	1139.4	989.5	907.8	903.8	960.0	1097.9	1108.6	1112.7	1150.1
30°	1257.3	1213.1	1076.5	961.4	875.7	874.3	961.4	1076.5	1073.8	1084.5	1122.0
32.5°	1218.4	1135.4	1005.5	926.5	844.9	843.5	952.0	1044.4	1041.7	1056.4	1084.5
35°	1182.3	1075.2	909.1	886.4	806.0	807.4	929.2	1006.9	1008.2	1021.6	1039.0
37.5°	1144.8	1022.9	803.4	842.2	768.5	768.5	898.4	972.1	969.4	973.4	997.5
40°	1100.6	941.3	709.6	784.6	733.7	729.7	860.9	934.6	925.2	923.9	957.3
42.5°	1053.7	851.6	640.0	708.3	693.6	688.2	815.4	889.0	871.6	875.7	918.5
45°	1002.9	827.5	586.5	598.5	652.1	648.0	765.9	836.8	824.8	835.5	879.7
47.5°	952.0	779.3	569.0	496.7	607.9	606.5	711.0	786.0	779.3	790.0	836.8
50°	882.4	725.7	567.7	425.8	558.3	563.7	645.4	736.4	736.4	745.8	795.3
52.5°	792.6	660.1	515.5	385.6	500.8	516.8	587.8	693.6	696.2	705.6	749.8
55°	711.0	591.8	478.0	354.8	432.5	467.3	531.6	649.4	654.7	664.1	704.3
57.5°	636.0	492.7	470.0	318.7	369.5	403.0	482.0	606.5	609.2	617.2	656.1
60°	555.7	356.2	431.1	279.8	314.6	340.1	436.5	555.7	565.0	570.4	603.9
62.5°	464.6	258.4	391.0	253.1	287.9	293.2	399.0	507.5	519.5	523.5	543.6
65°	330.7	216.9	332.1	230.3	259.8	261.1	358.8	457.9	468.6	475.3	490.0
67.5°	223.6	176.7	253.1	208.9	238.3	239.7	320.0	400.3	415.1	420.4	429.8
70°	155.3	117.8	187.5	186.1	214.2	216.9	278.5	348.1	361.5	365.5	370.9
72.5°	113.8	95.1	155.3	167.4	188.8	191.5	235.7	289.2	302.6	306.6	309.3
75°	87.0	100.4	125.9	145.9	160.7	162.0	192.8	235.7	245.0	247.7	249.0
77.5°	69.6	93.7	92.4	117.8	131.2	128.5	151.3	182.1	190.1	190.1	190.1
80°	52.2	73.6	69.6	84.4	96.4	93.7	108.5	129.9	132.6	135.2	133.9
82.5°	38.8	46.9	46.9	53.6	64.3	61.6	72.3	84.4	84.4	84.4	87.0
85°	24.1	26.8	21.4	28.1	36.2	34.8	40.2	45.5	46.9	46.9	44.2
87.5°	14.7	12.1	6.7	10.7	16.1	16.1	18.7	20.1	18.7	18.7	18.7
90°	10.8	7.4	4.1	7.4	10.8	11.6	18.2	27.0	31.5	28.0	21.1
92.5°	73.0	44.8	16.6	44.8	73.0	80.1	112.6	155.9	177.6	155.7	111.8
95°	143.1	91.5	39.8	91.5	143.1	156.0	277.1	438.5	519.2	463.4	351.5
97.5°	160.0	114.4	68.9	114.4	160.0	171.4	373.3	642.4	777.0	741.7	671.1
100°	174.0	132.6	91.3	132.6	174.0	184.3	408.3	707.0	856.3	858.9	864.1
102.5°	187.5	149.0	110.4	149.0	187.5	197.2	424.4	727.2	878.7	923.7	1013.7
105°	208.2	175.5	142.8	175.5	208.2	216.3	436.2	729.5	876.2	977.1	1178.9
107.5°	236.9	206.5	176.0	206.5	236.9	244.5	438.5	697.0	826.4	967.2	1248.7
110°	253.3	225.9	198.4	225.9	253.3	260.2	435.1	668.3	784.9	942.2	1257.0



TEST NUMBER: P934739

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	272.8	246.5	220.4	246.5	272.8	279.3	435.2	643.1	747.1	908.2	1230.2
115°	301.9	277.8	253.6	277.8	301.9	308.0	439.3	614.3	701.9	857.0	1167.3
117.5°	330.3	308.3	286.4	308.3	330.3	335.8	447.5	596.3	670.7	810.8	1090.8
120°	346.8	326.2	305.5	326.2	346.8	352.0	454.1	590.2	658.3	786.2	1042.0
122.5°	365.9	345.0	324.2	345.0	365.9	371.1	463.6	587.1	648.8	763.9	994.3
125°	390.8	371.8	352.8	371.8	390.8	395.5	476.5	584.4	638.4	736.2	932.0
127.5°	414.4	395.3	376.1	395.3	414.4	419.2	489.3	582.9	629.7	713.6	881.7
130°	429.8	409.2	388.5	409.2	429.8	435.0	498.8	583.9	626.4	701.2	850.8
132.5°	442.7	422.0	401.3	422.0	442.7	447.8	506.4	584.4	623.4	690.4	824.3
135°	458.1	439.3	420.4	439.3	458.1	462.8	514.7	583.9	618.4	674.5	786.7
137.5°	477.2	458.5	440.0	458.5	477.2	481.8	527.1	587.4	617.6	665.0	759.8
140°	490.5	473.3	456.1	473.3	490.5	494.8	534.8	588.1	614.7	655.6	737.6
142.5°	500.4	484.5	468.6	484.5	500.4	504.3	541.1	590.1	614.7	650.6	722.6
145°	515.3	501.6	487.7	501.6	515.3	518.8	549.4	590.2	610.6	640.0	698.8
147.5°	533.7	520.2	506.7	520.2	533.7	537.1	561.5	594.2	610.6	633.7	680.0
150°	543.6	531.4	519.2	531.4	543.6	546.6	568.0	596.4	610.6	630.1	669.2
152.5°	550.6	541.4	532.1	541.4	550.6	552.9	572.1	597.7	610.6	627.2	660.6
155°	564.8	558.0	551.2	558.0	564.8	566.5	581.2	600.7	610.6	623.9	650.5
157.5°	578.6	572.0	565.3	572.0	578.6	580.3	590.4	603.9	610.6	620.9	641.5
160°	585.2	580.0	574.8	580.0	585.2	586.5	594.5	605.2	610.6	619.4	637.1
162.5°	592.2	588.3	584.4	588.3	592.2	593.1	598.9	606.7	610.6	618.1	633.0
165°	601.8	598.3	594.8	598.3	601.8	602.7	605.3	608.8	610.6	615.9	626.6
167.5°	607.6	606.0	604.3	606.0	607.6	608.1	610.3	613.2	614.7	618.1	625.2
170°	613.9	612.2	610.6	612.2	613.9	614.3	614.4	614.6	614.7	618.1	625.2
172.5°	614.6	614.2	613.9	614.2	614.6	614.7	614.7	614.7	614.7	617.4	623.0
175°	618.4	618.4	618.4	618.4	618.4	618.4	617.2	615.5	614.7	616.4	619.9
177.5°	618.4	618.4	618.4	618.4	618.4	618.4	617.4	616.2	615.6	617.0	619.7
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



TEST NUMBER: P934739

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1365.7	1361.7	1367.0	1352.3	1367.0	1361.7	1365.7	1375.1	1367.0	1372.4	1377.8
5°	1198.3	1191.6	1170.2	1152.8	1170.2	1191.6	1198.3	1226.5	1239.8	1263.9	1296.1
7.5°	1071.1	1065.8	1060.4	1049.7	1060.4	1065.8	1071.1	1079.2	1092.6	1114.0	1138.1
10°	1043.0	1044.4	1052.4	1051.1	1052.4	1044.4	1043.0	1040.3	1036.3	1040.3	1055.1
12.5°	1115.3	1127.4	1171.6	1168.9	1171.6	1127.4	1115.3	1061.8	1025.6	1018.9	1021.6
15°	1198.3	1202.4	1211.7	1213.1	1211.7	1202.4	1198.3	1176.9	1068.5	1021.6	1006.9
17.5°	1206.4	1207.7	1214.4	1214.4	1214.4	1207.7	1206.4	1197.0	1160.9	1097.9	1014.9
20°	1199.7	1202.4	1215.7	1218.4	1215.7	1202.4	1199.7	1187.6	1167.5	1144.8	1081.9
22.5°	1197.0	1202.4	1213.1	1211.7	1213.1	1202.4	1197.0	1178.3	1160.9	1144.8	1119.3
25°	1183.6	1183.6	1185.0	1186.3	1185.0	1183.6	1183.6	1168.9	1134.1	1130.1	1115.3
27.5°	1155.5	1158.2	1166.2	1164.9	1166.2	1158.2	1155.5	1150.1	1112.7	1108.6	1097.9
30°	1130.1	1127.4	1120.7	1115.3	1120.7	1127.4	1130.1	1122.0	1084.5	1073.8	1076.5
32.5°	1087.2	1080.5	1073.8	1069.8	1073.8	1080.5	1087.2	1084.5	1056.4	1041.7	1044.4
35°	1036.3	1037.7	1036.3	1032.3	1036.3	1037.7	1036.3	1039.0	1021.6	1008.2	1006.9
37.5°	1000.2	1002.9	1001.5	996.2	1001.5	1002.9	1000.2	997.5	973.4	969.4	972.1
40°	962.7	964.0	962.7	958.7	962.7	964.0	962.7	957.3	923.9	925.2	934.6
42.5°	926.5	925.2	921.2	918.5	921.2	925.2	926.5	918.5	875.7	871.6	889.0
45°	885.0	886.4	878.3	874.3	878.3	886.4	885.0	879.7	835.5	824.8	836.8
47.5°	843.5	843.5	836.8	832.8	836.8	843.5	843.5	836.8	790.0	779.3	786.0
50°	799.3	798.0	788.6	787.3	788.6	798.0	799.3	795.3	745.8	736.4	736.4
52.5°	748.5	748.5	749.8	752.5	749.8	748.5	748.5	749.8	705.6	696.2	693.6
55°	704.3	705.6	715.0	717.7	715.0	705.6	704.3	704.3	664.1	654.7	649.4
57.5°	658.8	658.8	665.4	665.4	665.4	658.8	658.8	656.1	617.2	609.2	606.5
60°	606.5	609.2	614.6	613.2	614.6	609.2	606.5	603.9	570.4	565.0	555.7
62.5°	551.6	554.3	555.7	553.0	555.7	554.3	551.6	543.6	523.5	519.5	507.5
65°	494.1	496.7	498.1	495.4	498.1	496.7	494.1	490.0	475.3	468.6	457.9
67.5°	435.2	433.8	432.5	437.8	432.5	433.8	435.2	429.8	420.4	415.1	400.3
70°	374.9	374.9	373.6	376.2	373.6	374.9	374.9	370.9	365.5	361.5	348.1
72.5°	310.6	309.3	314.6	310.6	314.6	309.3	310.6	309.3	306.6	302.6	289.2
75°	247.7	250.4	247.7	251.7	247.7	250.4	247.7	249.0	247.7	245.0	235.7
77.5°	188.8	191.5	188.8	188.8	188.8	191.5	188.8	190.1	190.1	190.1	182.1
80°	133.9	132.6	132.6	131.2	132.6	132.6	133.9	133.9	135.2	132.6	129.9
82.5°	85.7	84.4	84.4	87.0	84.4	84.4	85.7	87.0	84.4	84.4	84.4
85°	46.9	48.2	45.5	45.5	45.5	48.2	46.9	44.2	46.9	46.9	45.5
87.5°	17.4	16.1	16.1	16.1	16.1	16.1	17.4	18.7	18.7	18.7	20.1
90°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.1	28.0	31.5	27.0
92.5°	78.8	75.7	63.1	50.6	63.1	75.7	78.8	111.8	155.7	177.6	155.9
95°	267.7	258.2	220.2	182.2	220.2	258.2	267.7	351.5	463.4	519.2	438.5
97.5°	618.1	599.9	527.6	455.3	527.6	599.9	618.1	671.1	741.7	777.0	642.4
100°	867.9	846.4	760.2	674.0	760.2	846.4	867.9	864.1	858.9	856.3	707.0
102.5°	1081.2	1062.8	989.0	915.2	989.0	1062.8	1081.2	1013.7	923.7	878.7	727.2
105°	1330.3	1320.4	1280.6	1241.0	1280.6	1320.4	1330.3	1178.9	977.1	876.2	729.5
107.5°	1459.8	1462.2	1471.8	1481.3	1471.8	1462.2	1459.8	1248.7	967.2	826.4	697.0
110°	1493.0	1503.4	1544.6	1585.9	1544.6	1503.4	1493.0	1257.0	942.2	784.9	668.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1471.8	1487.6	1551.1	1614.6	1551.1	1487.6	1471.8	1230.2	908.2	747.1	643.1
115°	1400.0	1421.9	1510.0	1598.0	1510.0	1421.9	1400.0	1167.3	857.0	701.9	614.3
117.5°	1300.8	1325.2	1422.7	1520.3	1422.7	1325.2	1300.8	1090.8	810.8	670.7	596.3
120°	1234.0	1257.7	1352.5	1447.3	1352.5	1257.7	1234.0	1042.0	786.2	658.3	590.2
122.5°	1167.1	1190.5	1284.0	1377.6	1284.0	1190.5	1167.1	994.3	763.9	648.8	587.1
125°	1078.7	1100.2	1186.5	1272.6	1186.5	1100.2	1078.7	932.0	736.2	638.4	584.4
127.5°	1007.8	1026.0	1098.6	1171.3	1098.6	1026.0	1007.8	881.7	713.6	629.7	582.9
130°	963.0	979.7	1046.9	1114.0	1046.9	979.7	963.0	850.8	701.2	626.4	583.9
132.5°	924.8	939.8	999.9	1060.1	999.9	939.8	924.8	824.3	690.4	623.4	584.4
135°	870.8	883.7	935.6	987.4	935.6	883.7	870.8	786.7	674.5	618.4	583.9
137.5°	830.9	841.6	884.0	926.5	884.0	841.6	830.9	759.8	665.0	617.6	587.4
140°	799.0	808.9	848.6	888.2	848.6	808.9	799.0	737.6	655.6	614.7	588.1
142.5°	776.6	785.1	819.2	853.3	819.2	785.1	776.6	722.6	650.6	614.7	590.1
145°	742.9	749.4	775.2	801.0	775.2	749.4	742.9	698.8	640.0	610.6	590.2
147.5°	714.7	720.1	741.4	762.8	741.4	720.1	714.7	680.0	633.7	610.6	594.2
150°	698.6	702.9	720.3	737.6	720.3	702.9	698.6	669.2	630.1	610.6	596.4
152.5°	685.7	689.0	702.0	715.2	702.0	689.0	685.7	660.6	627.2	610.6	597.7
155°	670.4	672.5	681.2	689.8	681.2	672.5	670.4	650.5	623.9	610.6	600.7
157.5°	657.1	658.6	664.6	670.7	664.6	658.6	657.1	641.5	620.9	610.6	603.9
160°	650.4	651.3	654.7	658.3	654.7	651.3	650.4	637.1	619.4	610.6	605.2
162.5°	644.2	645.0	648.3	651.6	648.3	645.0	644.2	633.0	618.1	610.6	606.7
165°	634.7	635.5	639.0	642.5	639.0	635.5	634.7	626.6	615.9	610.6	608.8
167.5°	630.5	630.8	632.3	633.8	632.3	630.8	630.5	625.2	618.1	614.7	613.2
170°	630.5	630.5	630.5	630.5	630.5	630.5	630.5	625.2	618.1	614.7	614.6
172.5°	627.2	626.8	625.5	624.2	625.5	626.8	627.2	623.0	617.4	614.7	614.7
175°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	619.9	616.4	614.7	615.5
177.5°	621.8	621.4	619.9	618.4	619.9	621.4	621.8	619.7	617.0	615.6	616.2
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1397.8	1404.5	1408.6	1413.9	1427.3
5°	1344.3	1369.7	1377.8	1397.8	1421.9
7.5°	1226.5	1304.1	1325.5	1373.7	1411.2
10°	1112.7	1190.3	1227.8	1341.6	1397.8
12.5°	1055.1	1100.6	1126.0	1285.4	1379.1
15°	1018.9	1051.1	1069.8	1210.4	1357.7
17.5°	990.8	1013.6	1027.0	1136.8	1328.2
20°	973.4	984.1	996.2	1083.2	1294.7
22.5°	961.4	954.7	964.0	1045.7	1249.2
25°	953.3	927.9	938.6	1016.2	1195.7
27.5°	960.0	903.8	907.8	989.5	1139.4
30°	961.4	874.3	875.7	961.4	1076.5
32.5°	952.0	843.5	844.9	926.5	1005.5
35°	929.2	807.4	806.0	886.4	909.1
37.5°	898.4	768.5	768.5	842.2	803.4
40°	860.9	729.7	733.7	784.6	709.6
42.5°	815.4	688.2	693.6	708.3	640.0
45°	765.9	648.0	652.1	598.5	586.5
47.5°	711.0	606.5	607.9	496.7	569.0
50°	645.4	563.7	558.3	425.8	567.7
52.5°	587.8	516.8	500.8	385.6	515.5
55°	531.6	467.3	432.5	354.8	478.0
57.5°	482.0	403.0	369.5	318.7	470.0
60°	436.5	340.1	314.6	279.8	431.1
62.5°	399.0	293.2	287.9	253.1	391.0
65°	358.8	261.1	259.8	230.3	332.1
67.5°	320.0	239.7	238.3	208.9	253.1
70°	278.5	216.9	214.2	186.1	187.5
72.5°	235.7	191.5	188.8	167.4	155.3
75°	192.8	162.0	160.7	145.9	125.9
77.5°	151.3	128.5	131.2	117.8	92.4
80°	108.5	93.7	96.4	84.4	69.6
82.5°	72.3	61.6	64.3	53.6	46.9
85°	40.2	34.8	36.2	28.1	21.4
87.5°	18.7	16.1	16.1	10.7	6.7
90°	18.2	11.6	10.8	7.4	4.1
92.5°	112.6	80.1	73.0	44.8	16.6
95°	277.1	156.0	143.1	91.5	39.8
97.5°	373.3	171.4	160.0	114.4	68.9
100°	408.3	184.3	174.0	132.6	91.3
102.5°	424.4	197.2	187.5	149.0	110.4
105°	436.2	216.3	208.2	175.5	142.8
107.5°	438.5	244.5	236.9	206.5	176.0
110°	435.1	260.2	253.3	225.9	198.4



TEST NUMBER: P934739

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	435.2	279.3	272.8	246.5	220.4
115°	439.3	308.0	301.9	277.8	253.6
117.5°	447.5	335.8	330.3	308.3	286.4
120°	454.1	352.0	346.8	326.2	305.5
122.5°	463.6	371.1	365.9	345.0	324.2
125°	476.5	395.5	390.8	371.8	352.8
127.5°	489.3	419.2	414.4	395.3	376.1
130°	498.8	435.0	429.8	409.2	388.5
132.5°	506.4	447.8	442.7	422.0	401.3
135°	514.7	462.8	458.1	439.3	420.4
137.5°	527.1	481.8	477.2	458.5	440.0
140°	534.8	494.8	490.5	473.3	456.1
142.5°	541.1	504.3	500.4	484.5	468.6
145°	549.4	518.8	515.3	501.6	487.7
147.5°	561.5	537.1	533.7	520.2	506.7
150°	568.0	546.6	543.6	531.4	519.2
152.5°	572.1	552.9	550.6	541.4	532.1
155°	581.2	566.5	564.8	558.0	551.2
157.5°	590.4	580.3	578.6	572.0	565.3
160°	594.5	586.5	585.2	580.0	574.8
162.5°	598.9	593.1	592.2	588.3	584.4
165°	605.3	602.7	601.8	598.3	594.8
167.5°	610.3	608.1	607.6	606.0	604.3
170°	614.4	614.3	613.9	612.2	610.6
172.5°	614.7	614.7	614.6	614.2	613.9
175°	617.2	618.4	618.4	618.4	618.4
177.5°	617.4	618.4	618.4	618.4	618.4
180°	618.4	618.4	618.4	618.4	618.4



TEST NUMBER: P934739  
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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	12.13	12.98	13.11	13.97	15.27	14.96	15.80	15.93	16.79	18.09
	3H	12.61	13.36	13.60	14.36	15.69	16.30	17.05	17.29	18.05	19.38
	4H	12.80	13.51	13.80	14.52	15.85	16.74	17.46	17.74	18.46	19.79
	6H	12.92	13.58	13.93	14.58	15.93	17.02	17.68	18.04	18.69	20.03
	8H	12.92	13.54	13.94	14.57	15.91	17.10	17.72	18.11	18.75	20.09
	12H	12.89	13.48	13.91	14.50	15.87	17.14	17.73	18.16	18.75	20.11
4H	2H	13.16	13.88	14.17	14.88	16.21	15.37	16.08	16.37	17.08	18.41
	3H	14.19	14.78	15.20	15.81	17.16	16.87	17.46	17.88	18.49	19.84
	4H	14.46	15.01	15.49	16.03	17.40	17.39	17.94	18.42	18.96	20.33
	6H	14.59	15.06	15.62	16.10	17.47	17.76	18.22	18.79	19.27	20.64
	8H	14.59	15.03	15.63	16.07	17.45	17.86	18.30	18.90	19.34	20.72
	12H	14.56	14.95	15.61	16.01	17.39	17.92	18.31	18.97	19.37	20.75
8H	4H	14.91	15.35	15.95	16.39	17.77	17.52	17.95	18.55	18.99	20.37
	6H	15.18	15.54	16.23	16.62	18.00	17.95	18.31	19.01	19.39	20.77
	8H	15.22	15.54	16.28	16.60	18.00	18.10	18.42	19.17	19.49	20.88
	12H	15.20	15.48	16.27	16.54	17.98	18.20	18.48	19.27	19.54	20.98
12H	4H	14.92	15.31	15.97	16.37	17.75	17.48	17.88	18.53	18.93	20.31
	6H	15.24	15.55	16.30	16.62	18.02	17.95	18.27	19.01	19.33	20.73
	8H	15.30	15.58	16.37	16.64	18.08	18.11	18.39	19.18	19.45	20.89