

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: P934831

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934831
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

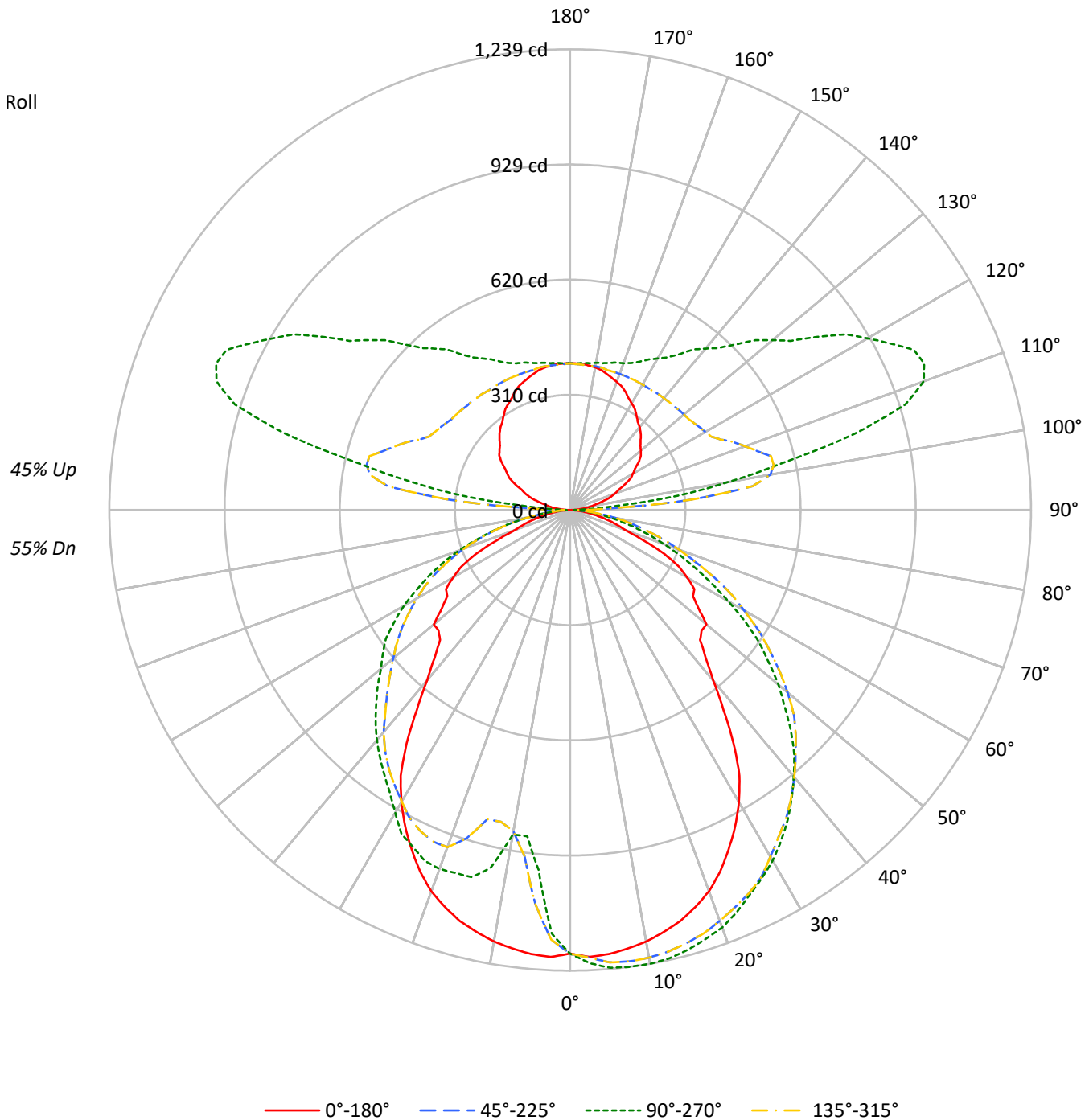
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5651.8 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.2
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11068	11068	11068	11068
5°	11139	11174	11139	8786
10°	11053	11006	11053	7869
15°	10920	10767	10920	8991
20°	10678	10485	10678	9010
25°	10199	10074	10199	8818
30°	9583	9731	9583	8401
35°	8530	9299	8530	7939
40°	7096	8789	7096	7591
45°	6328	8193	6328	7191
50°	6708	7482	6708	6790
55°	6293	6716	6293	6557
60°	6462	5704	6462	6005
65°	5833	4714	5833	5271
70°	4011	3757	4011	4418
75°	3479	2776	3479	3327
80°	2747	1837	2747	2000
85°	1490	972	1490	827

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	1.9
10°-20°	305.7	5.4
20°-30°	472.6	8.4
30°-40°	564.2	10.0
40°-50°	567.5	10.0
50°-60°	493.8	8.7
60°-70°	350.1	6.2
70°-80°	185.2	3.3
80°-90°	47.6	0.8
90°-100°	192.3	3.4
100°-110°	505.6	8.9
110°-120°	524.2	9.3
120°-130°	420.5	7.4
130°-140°	329.9	5.8
140°-150°	253.2	4.5
150°-160°	182.4	3.2
160°-170°	111.6	2.0
170°-180°	37.7	0.7
0°-30°	886.0	15.7
0°-40°	1450.1	25.7
0°-60°	2511.4	44.4
0°-90°	3094.3	54.7
90°-120°	1222.1	21.6
90°-150°	2225.8	39.4
90°-180°	2557.0	45.2
0°-180°	5651.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1193	1193	1193	1193	1193	
5°	1198	1236	1198	972	1198	114
15°	1144	1224	1144	1022	1144	322
25°	1008	1142	1008	1000	1008	463
35°	766	1019	766	870	766	474
45°	494	840	494	737	494	396
55°	403	620	403	605	403	370
65°	280	374	280	418	280	267
75°	106	177	106	212	106	112
85°	18	45	18	38	18	24
90°	3	10	3	10	3	3
95°	26	116	26	116	26	28
105°	91	792	91	792	91	97
115°	162	1019	162	1019	162	160
125°	225	812	225	812	225	200
135°	268	630	268	630	268	208
145°	311	511	311	511	311	195
155°	352	440	352	440	352	162
165°	379	410	379	410	379	107
175°	394	397	394	397	394	37
180°	394	394	394	394	394	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1203.0	1203.0	1209.8	1212.0	1212.0	1208.6	1205.3	1208.6	1218.8	1222.2	1221.1
5°	1198.5	1207.5	1220.0	1222.2	1224.4	1223.3	1221.1	1223.3	1234.6	1236.9	1238.0
7.5°	1189.5	1206.4	1222.2	1225.6	1228.9	1225.6	1224.4	1226.7	1238.0	1240.2	1240.2
10°	1178.2	1201.8	1220.0	1222.2	1225.6	1222.2	1222.2	1226.7	1238.0	1240.2	1241.4
12.5°	1162.4	1195.1	1212.0	1214.3	1218.8	1217.6	1216.5	1221.1	1232.3	1234.6	1234.6
15°	1144.3	1182.7	1198.5	1200.7	1208.6	1206.4	1206.4	1210.9	1223.3	1226.7	1225.6
17.5°	1119.5	1166.9	1184.9	1188.3	1194.0	1192.8	1194.0	1198.5	1209.8	1212.0	1213.1
20°	1091.2	1145.5	1166.9	1170.2	1175.9	1175.9	1175.9	1181.5	1192.8	1197.3	1197.3
22.5°	1052.9	1122.8	1145.5	1147.7	1154.4	1154.4	1156.7	1164.6	1174.8	1175.9	1175.9
25°	1007.8	1098.1	1117.2	1124.0	1130.8	1134.1	1137.5	1142.1	1145.5	1144.3	1145.5
27.5°	960.4	1066.5	1091.2	1095.8	1104.8	1108.2	1112.7	1113.9	1115.0	1118.3	1116.1
30°	907.3	1022.4	1059.6	1064.2	1078.8	1081.1	1076.6	1078.8	1084.5	1086.8	1089.0
32.5°	847.5	957.0	1026.9	1037.1	1050.7	1043.8	1042.7	1046.1	1055.2	1055.2	1057.4
35°	766.2	906.2	996.5	1005.5	1015.6	1007.8	1012.2	1013.4	1019.1	1022.4	1021.3
37.5°	677.1	862.2	964.9	971.7	979.5	969.3	976.2	979.5	984.0	981.8	981.8
40°	598.1	793.3	927.7	932.1	938.9	931.0	937.7	940.1	942.3	940.1	938.9
42.5°	539.5	717.7	888.1	893.8	889.2	894.9	897.2	901.7	898.3	893.8	893.8
45°	494.3	697.4	845.2	852.0	845.2	854.3	857.6	857.6	847.5	845.2	844.1
47.5°	479.6	656.8	802.4	802.4	799.0	810.2	815.9	808.0	797.8	794.5	794.5
50°	478.5	611.6	743.7	739.2	755.0	768.5	762.9	755.0	747.1	734.6	734.6
52.5°	434.5	556.4	668.1	685.0	709.9	717.7	708.7	700.8	687.2	681.6	677.1
55°	402.9	498.8	599.3	633.1	659.0	669.2	652.3	644.4	624.0	620.7	618.4
57.5°	396.1	415.3	536.1	578.9	610.5	609.4	599.3	584.6	567.7	564.2	563.1
60°	363.3	300.1	468.3	519.1	551.9	548.4	539.5	525.9	510.1	507.9	505.6
62.5°	329.5	217.8	391.6	449.2	495.4	494.3	486.4	466.1	454.8	449.2	444.7
65°	279.9	182.8	278.7	373.5	440.1	442.4	425.4	410.8	398.4	391.6	390.4
67.5°	213.3	149.0	188.4	311.5	387.1	384.8	363.3	356.6	340.8	337.4	330.6
70°	158.0	99.3	130.9	252.8	335.2	329.5	312.6	304.7	290.1	282.1	277.6
72.5°	130.9	80.1	95.9	196.4	282.1	275.4	260.7	251.6	239.2	232.5	228.0
75°	106.1	84.6	73.4	145.5	229.1	224.6	211.1	202.0	191.8	182.8	184.0
77.5°	77.9	79.0	58.7	107.2	181.7	174.9	167.0	155.7	151.2	142.2	142.2
80°	58.7	62.1	44.0	73.4	130.9	130.9	124.1	116.2	108.3	103.9	103.9
82.5°	39.5	39.5	32.7	46.3	89.2	85.8	81.2	79.0	74.5	72.3	72.3
85°	18.0	22.5	20.3	28.2	48.5	50.8	50.8	48.5	47.4	45.1	46.3
87.5°	5.6	10.2	12.4	15.8	24.9	26.0	27.1	27.1	27.1	28.2	28.2
90°	2.6	4.8	6.9	7.4	11.7	17.3	20.2	17.9	13.4	10.1	10.1
92.5°	10.6	28.6	46.5	51.1	71.8	99.5	113.3	99.3	71.3	50.3	48.3
95°	25.5	58.4	91.4	99.6	176.8	279.7	331.2	295.5	224.2	170.7	164.7
97.5°	44.0	73.0	102.1	109.3	238.1	409.8	495.7	473.1	428.1	394.3	382.7
100°	58.3	84.6	111.0	117.5	260.4	451.0	546.2	547.8	551.2	553.6	539.9
102.5°	70.5	95.1	119.6	125.7	270.7	464.0	560.6	589.3	646.7	689.7	677.9
105°	91.1	111.9	132.7	137.9	278.3	465.4	558.9	623.3	752.1	848.6	842.3
107.5°	112.2	131.7	151.1	156.0	279.7	444.7	527.2	616.9	796.5	931.2	932.7
110°	126.6	144.1	161.7	166.0	277.6	426.3	500.7	601.0	801.8	952.4	958.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.6	157.3	174.0	178.2	277.7	410.3	476.6	579.4	784.8	938.9	949.0
115°	161.8	177.1	192.6	196.4	280.2	391.9	447.7	546.7	744.6	893.1	907.1
117.5°	182.7	196.7	210.7	214.2	285.4	380.3	427.8	517.2	695.8	829.8	845.3
120°	194.9	208.1	221.2	224.6	289.6	376.5	419.9	501.5	664.8	787.2	802.3
122.5°	206.8	220.1	233.3	236.7	295.7	374.4	413.8	487.3	634.3	744.5	759.5
125°	225.1	237.2	249.3	252.3	304.0	372.8	407.2	469.7	594.6	688.2	701.9
127.5°	239.9	252.1	264.4	267.4	312.2	371.9	401.7	455.3	562.5	642.9	654.5
130°	247.9	261.0	274.2	277.5	318.2	372.4	399.6	447.3	542.7	614.3	625.0
132.5°	256.1	269.2	282.4	285.7	323.0	372.8	397.7	440.4	525.9	589.9	599.5
135°	268.2	280.2	292.2	295.2	328.3	372.5	394.5	430.3	501.9	555.5	563.8
137.5°	280.7	292.5	304.4	307.4	336.3	374.8	394.0	424.2	484.7	530.1	536.8
140°	291.0	301.9	312.9	315.6	341.1	375.1	392.1	418.3	470.5	509.7	516.0
142.5°	298.9	309.0	319.1	321.7	345.2	376.5	392.1	415.1	461.0	495.4	500.9
145°	311.1	320.0	328.8	331.0	350.4	376.5	389.5	408.3	445.8	474.0	478.1
147.5°	323.3	331.8	340.5	342.6	358.2	379.1	389.5	404.3	433.8	455.9	459.4
150°	331.2	339.0	346.8	348.7	362.3	380.4	389.5	402.0	426.9	445.6	448.3
152.5°	339.4	345.3	351.2	352.7	365.0	381.3	389.5	400.2	421.4	437.4	439.4
155°	351.6	356.0	360.3	361.4	370.8	383.2	389.5	397.9	414.8	427.6	428.9
157.5°	360.6	364.9	369.2	370.2	376.6	385.2	389.5	396.1	409.2	419.1	420.1
160°	366.7	370.0	373.3	374.1	379.2	386.1	389.5	395.1	406.5	414.9	415.4
162.5°	372.8	375.3	377.8	378.4	382.1	387.0	389.5	394.3	403.7	410.9	411.4
165°	379.4	381.6	383.8	384.4	386.2	388.4	389.5	392.9	399.7	404.9	405.5
167.5°	385.5	386.5	387.6	387.9	389.3	391.2	392.1	394.4	398.9	402.2	402.5
170°	389.5	390.5	391.6	391.9	392.0	392.0	392.1	394.4	398.9	402.2	402.2
172.5°	391.6	391.9	392.0	392.1	392.1	392.1	392.1	393.9	397.4	400.1	399.9
175°	394.5	394.5	394.5	394.5	393.8	392.6	392.1	393.2	395.5	397.2	397.2
177.5°	394.5	394.5	394.5	394.5	393.9	393.1	392.6	393.5	395.3	396.7	396.4
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1223.3	1220.0	1223.3	1221.1	1222.2	1218.8	1208.6	1205.3	1208.6	1212.0	1212.0
5°	1238.0	1235.8	1238.0	1238.0	1236.9	1234.6	1223.3	1221.1	1223.3	1224.4	1222.2
7.5°	1242.5	1239.1	1242.5	1240.2	1240.2	1238.0	1226.7	1224.4	1225.6	1228.9	1225.6
10°	1242.5	1239.1	1242.5	1241.4	1240.2	1238.0	1226.7	1222.2	1222.2	1225.6	1222.2
12.5°	1236.9	1234.6	1236.9	1234.6	1234.6	1232.3	1221.1	1216.5	1217.6	1218.8	1214.3
15°	1227.8	1224.4	1227.8	1225.6	1226.7	1223.3	1210.9	1206.4	1206.4	1208.6	1200.7
17.5°	1214.3	1209.8	1214.3	1213.1	1212.0	1209.8	1198.5	1194.0	1192.8	1194.0	1188.3
20°	1198.5	1195.1	1198.5	1197.3	1197.3	1192.8	1181.5	1175.9	1175.9	1175.9	1170.2
22.5°	1173.7	1170.2	1173.7	1175.9	1175.9	1174.8	1164.6	1156.7	1154.4	1154.4	1147.7
25°	1145.5	1142.1	1145.5	1145.5	1144.3	1145.5	1142.1	1137.5	1134.1	1130.8	1124.0
27.5°	1118.3	1116.1	1118.3	1116.1	1118.3	1115.0	1113.9	1112.7	1108.2	1104.8	1095.8
30°	1091.2	1089.0	1091.2	1089.0	1086.8	1084.5	1078.8	1076.6	1081.1	1078.8	1064.2
32.5°	1057.4	1055.2	1057.4	1057.4	1055.2	1055.2	1046.1	1042.7	1043.8	1050.7	1037.1
35°	1022.4	1019.1	1022.4	1021.3	1022.4	1019.1	1013.4	1012.2	1007.8	1015.6	1005.5
37.5°	981.8	978.4	981.8	981.8	981.8	984.0	979.5	976.2	969.3	979.5	971.7
40°	940.1	935.5	940.1	938.9	940.1	942.3	940.1	937.7	931.0	938.9	932.1
42.5°	892.6	891.5	892.6	893.8	893.8	898.3	901.7	897.2	894.9	889.2	893.8
45°	841.8	839.6	841.8	844.1	845.2	847.5	857.6	857.6	854.3	845.2	852.0
47.5°	787.7	782.0	787.7	794.5	794.5	797.8	808.0	815.9	810.2	799.0	802.4
50°	730.1	731.3	730.1	734.6	734.6	747.1	755.0	762.9	768.5	755.0	739.2
52.5°	673.7	672.6	673.7	677.1	681.6	687.2	700.8	708.7	717.7	709.9	685.0
55°	617.3	619.6	617.3	618.4	620.7	624.0	644.4	652.3	669.2	659.0	633.1
57.5°	560.9	557.5	560.9	563.1	564.2	567.7	584.6	599.3	609.4	610.5	578.9
60°	495.4	490.9	495.4	505.6	507.9	510.1	525.9	539.5	548.4	551.9	519.1
62.5°	437.8	430.0	437.8	444.7	449.2	454.8	466.1	486.4	494.3	495.4	449.2
65°	376.9	373.5	376.9	390.4	391.6	398.4	410.8	425.4	442.4	440.1	373.5
67.5°	321.7	321.7	321.7	330.6	337.4	340.8	356.6	363.3	384.8	387.1	311.5
70°	270.8	269.7	270.8	277.6	282.1	290.1	304.7	312.6	329.5	335.2	252.8
72.5°	222.3	221.2	222.3	228.0	232.5	239.2	251.6	260.7	275.4	282.1	196.4
75°	179.5	177.1	179.5	184.0	182.8	191.8	202.0	211.1	224.6	229.1	145.5
77.5°	137.7	137.7	137.7	142.2	142.2	151.2	155.7	167.0	174.9	181.7	107.2
80°	102.7	101.6	102.7	103.9	103.9	108.3	116.2	124.1	130.9	130.9	73.4
82.5°	72.3	70.0	72.3	72.3	72.3	74.5	79.0	81.2	85.8	89.2	46.3
85°	45.1	45.1	45.1	46.3	45.1	47.4	48.5	50.8	50.8	48.5	28.2
87.5°	29.4	28.2	29.4	28.2	28.2	27.1	27.1	27.1	26.0	24.9	15.8
90°	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.2	17.3	11.7	7.4
92.5°	40.3	32.3	40.3	48.3	50.3	71.3	99.3	113.3	99.5	71.8	51.1
95°	140.5	116.2	140.5	164.7	170.7	224.2	295.5	331.2	279.7	176.8	99.6
97.5°	336.6	290.5	336.6	382.7	394.3	428.1	473.1	495.7	409.8	238.1	109.3
100°	485.0	430.0	485.0	539.9	553.6	551.2	547.8	546.2	451.0	260.4	117.5
102.5°	630.9	583.8	630.9	677.9	689.7	646.7	589.3	560.6	464.0	270.7	125.7
105°	817.0	791.7	817.0	842.3	848.6	752.1	623.3	558.9	465.4	278.3	137.9
107.5°	938.9	945.0	938.9	932.7	931.2	796.5	616.9	527.2	444.7	279.7	156.0
110°	985.3	1011.7	985.3	958.9	952.4	801.8	601.0	500.7	426.3	277.6	166.0



TEST NUMBER: P934831

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	989.5	1030.0	989.5	949.0	938.9	784.8	579.4	476.6	410.3	277.7	178.2
115°	963.3	1019.4	963.3	907.1	893.1	744.6	546.7	447.7	391.9	280.2	196.4
117.5°	907.6	969.9	907.6	845.3	829.8	695.8	517.2	427.8	380.3	285.4	214.2
120°	862.8	923.2	862.8	802.3	787.2	664.8	501.5	419.9	376.5	289.6	224.6
122.5°	819.1	878.8	819.1	759.5	744.5	634.3	487.3	413.8	374.4	295.7	236.7
125°	756.8	811.8	756.8	701.9	688.2	594.6	469.7	407.2	372.8	304.0	252.3
127.5°	700.8	747.2	700.8	654.5	642.9	562.5	455.3	401.7	371.9	312.2	267.4
130°	667.8	710.6	667.8	625.0	614.3	542.7	447.3	399.6	372.4	318.2	277.5
132.5°	637.9	676.2	637.9	599.5	589.9	525.9	440.4	397.7	372.8	323.0	285.7
135°	596.9	629.9	596.9	563.8	555.5	501.9	430.3	394.5	372.5	328.3	295.2
137.5°	563.9	591.0	563.9	536.8	530.1	484.7	424.2	394.0	374.8	336.3	307.4
140°	541.3	566.6	541.3	516.0	509.7	470.5	418.3	392.1	375.1	341.1	315.6
142.5°	522.6	544.3	522.6	500.9	495.4	461.0	415.1	392.1	376.5	345.2	321.7
145°	494.5	511.0	494.5	478.1	474.0	445.8	408.3	389.5	376.5	350.4	331.0
147.5°	473.0	486.7	473.0	459.4	455.9	433.8	404.3	389.5	379.1	358.2	342.6
150°	459.4	470.5	459.4	448.3	445.6	426.9	402.0	389.5	380.4	362.3	348.7
152.5°	447.8	456.2	447.8	439.4	437.4	421.4	400.2	389.5	381.3	365.0	352.7
155°	434.5	440.0	434.5	428.9	427.6	414.8	397.9	389.5	383.2	370.8	361.4
157.5°	424.0	427.8	424.0	420.1	419.1	409.2	396.1	389.5	385.2	376.6	370.2
160°	417.7	419.9	417.7	415.4	414.9	406.5	395.1	389.5	386.1	379.2	374.1
162.5°	413.6	415.7	413.6	411.4	410.9	403.7	394.3	389.5	387.0	382.1	378.4
165°	407.7	409.9	407.7	405.5	404.9	399.7	392.9	389.5	388.4	386.2	384.4
167.5°	403.4	404.3	403.4	402.5	402.2	398.9	394.4	392.1	391.2	389.3	387.9
170°	402.2	402.2	402.2	402.2	402.2	398.9	394.4	392.1	392.0	392.0	391.9
172.5°	399.0	398.2	399.0	399.9	400.1	397.4	393.9	392.1	392.1	392.1	392.1
175°	397.2	397.2	397.2	397.2	397.2	395.5	393.2	392.1	392.6	393.8	394.5
177.5°	395.5	394.5	395.5	396.4	396.7	395.3	393.5	392.6	393.1	393.9	394.5
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934831

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1209.8	1203.0	1203.0	1191.7	1187.2	1183.8	1178.2	1161.3	1156.7	1152.2	1159.0
5°	1220.0	1207.5	1198.5	1178.2	1161.3	1154.4	1133.0	1092.4	1065.3	1045.0	1033.8
7.5°	1222.2	1206.4	1189.5	1157.9	1117.2	1099.2	1033.8	959.3	938.9	920.8	909.6
10°	1220.0	1201.8	1178.2	1130.8	1034.9	1003.3	937.7	889.2	876.8	873.4	876.8
12.5°	1212.0	1195.1	1162.4	1083.4	949.1	927.7	889.2	861.0	858.8	864.5	894.9
15°	1198.5	1182.7	1144.3	1020.2	901.7	885.9	858.8	848.7	861.0	900.5	992.0
17.5°	1184.9	1166.9	1119.5	958.1	865.6	854.3	835.1	855.4	925.4	978.4	1008.9
20°	1166.9	1145.5	1091.2	913.0	839.6	829.4	820.4	911.9	964.9	984.0	1001.0
22.5°	1145.5	1122.8	1052.9	881.4	812.5	804.6	810.2	943.5	964.9	978.4	993.1
25°	1117.2	1098.1	1007.8	856.5	791.1	782.0	803.5	940.1	952.4	955.9	985.2
27.5°	1091.2	1066.5	960.4	834.0	765.1	761.7	809.1	925.4	934.4	937.7	969.3
30°	1059.6	1022.4	907.3	810.2	738.1	736.9	810.2	907.3	905.0	914.1	945.7
32.5°	1026.9	957.0	847.5	780.9	712.1	711.0	802.4	880.3	878.0	890.4	914.1
35°	996.5	906.2	766.2	747.1	679.4	680.5	783.1	848.7	849.8	861.0	875.7
37.5°	964.9	862.2	677.1	709.9	647.8	647.8	757.2	819.3	817.1	820.4	840.7
40°	927.7	793.3	598.1	661.3	618.4	615.1	725.7	787.7	779.8	778.7	806.9
42.5°	888.1	717.7	539.5	597.0	584.6	580.0	687.2	749.3	734.6	738.1	774.2
45°	845.2	697.4	494.3	504.4	549.5	546.2	645.5	705.3	695.2	704.2	741.5
47.5°	802.4	656.8	479.6	418.7	512.3	511.2	599.3	662.5	656.8	665.8	705.3
50°	743.7	611.6	478.5	358.9	470.6	475.1	543.9	620.7	620.7	628.6	670.3
52.5°	668.1	556.4	434.5	325.0	422.0	435.6	495.4	584.6	586.8	594.7	632.0
55°	599.3	498.8	402.9	299.0	364.5	393.8	448.0	547.3	551.9	559.7	593.6
57.5°	536.1	415.3	396.1	268.6	311.5	339.7	406.2	511.2	513.5	520.2	553.0
60°	468.3	300.1	363.3	235.8	265.2	286.6	367.9	468.3	476.3	480.7	509.0
62.5°	391.6	217.8	329.5	213.3	242.7	247.2	336.3	427.7	437.8	441.2	458.2
65°	278.7	182.8	279.9	194.1	218.9	220.0	302.4	386.0	394.9	400.6	413.1
67.5°	188.4	149.0	213.3	176.0	200.9	202.0	269.7	337.4	349.9	354.4	362.2
70°	130.9	99.3	158.0	156.9	180.6	182.8	234.7	293.4	304.7	308.1	312.6
72.5°	95.9	80.1	130.9	141.1	159.1	161.3	198.6	243.8	255.0	258.5	260.7
75°	73.4	84.6	106.1	123.0	135.4	136.6	162.5	198.6	206.5	208.7	209.9
77.5°	58.7	79.0	77.9	99.3	110.6	108.3	127.5	153.5	160.2	160.2	160.2
80°	44.0	62.1	58.7	71.1	81.2	79.0	91.4	109.5	111.7	113.9	112.8
82.5°	32.7	39.5	39.5	45.1	54.2	51.9	60.9	71.1	71.1	71.1	73.4
85°	20.3	22.5	18.0	23.7	30.5	29.4	33.8	38.4	39.5	39.5	37.2
87.5°	12.4	10.2	5.6	9.1	13.6	13.6	15.8	16.9	15.8	15.8	15.8
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.7	17.3	20.2	17.9	13.4
92.5°	46.5	28.6	10.6	28.6	46.5	51.1	71.8	99.5	113.3	99.3	71.3
95°	91.4	58.4	25.5	58.4	91.4	99.6	176.8	279.7	331.2	295.5	224.2
97.5°	102.1	73.0	44.0	73.0	102.1	109.3	238.1	409.8	495.7	473.1	428.1
100°	111.0	84.6	58.3	84.6	111.0	117.5	260.4	451.0	546.2	547.8	551.2
102.5°	119.6	95.1	70.5	95.1	119.6	125.7	270.7	464.0	560.6	589.3	646.7
105°	132.7	111.9	91.1	111.9	132.7	137.9	278.3	465.4	558.9	623.3	752.1
107.5°	151.1	131.7	112.2	131.7	151.1	156.0	279.7	444.7	527.2	616.9	796.5
110°	161.7	144.1	126.6	144.1	161.7	166.0	277.6	426.3	500.7	601.0	801.8



TEST NUMBER: P934831

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	174.0	157.3	140.6	157.3	174.0	178.2	277.7	410.3	476.6	579.4	784.8
115°	192.6	177.1	161.8	177.1	192.6	196.4	280.2	391.9	447.7	546.7	744.6
117.5°	210.7	196.7	182.7	196.7	210.7	214.2	285.4	380.3	427.8	517.2	695.8
120°	221.2	208.1	194.9	208.1	221.2	224.6	289.6	376.5	419.9	501.5	664.8
122.5°	233.3	220.1	206.8	220.1	233.3	236.7	295.7	374.4	413.8	487.3	634.3
125°	249.3	237.2	225.1	237.2	249.3	252.3	304.0	372.8	407.2	469.7	594.6
127.5°	264.4	252.1	239.9	252.1	264.4	267.4	312.2	371.9	401.7	455.3	562.5
130°	274.2	261.0	247.9	261.0	274.2	277.5	318.2	372.4	399.6	447.3	542.7
132.5°	282.4	269.2	256.1	269.2	282.4	285.7	323.0	372.8	397.7	440.4	525.9
135°	292.2	280.2	268.2	280.2	292.2	295.2	328.3	372.5	394.5	430.3	501.9
137.5°	304.4	292.5	280.7	292.5	304.4	307.4	336.3	374.8	394.0	424.2	484.7
140°	312.9	301.9	291.0	301.9	312.9	315.6	341.1	375.1	392.1	418.3	470.5
142.5°	319.1	309.0	298.9	309.0	319.1	321.7	345.2	376.5	392.1	415.1	461.0
145°	328.8	320.0	311.1	320.0	328.8	331.0	350.4	376.5	389.5	408.3	445.8
147.5°	340.5	331.8	323.3	331.8	340.5	342.6	358.2	379.1	389.5	404.3	433.8
150°	346.8	339.0	331.2	339.0	346.8	348.7	362.3	380.4	389.5	402.0	426.9
152.5°	351.2	345.3	339.4	345.3	351.2	352.7	365.0	381.3	389.5	400.2	421.4
155°	360.3	356.0	351.6	356.0	360.3	361.4	370.8	383.2	389.5	397.9	414.8
157.5°	369.2	364.9	360.6	364.9	369.2	370.2	376.6	385.2	389.5	396.1	409.2
160°	373.3	370.0	366.7	370.0	373.3	374.1	379.2	386.1	389.5	395.1	406.5
162.5°	377.8	375.3	372.8	375.3	377.8	378.4	382.1	387.0	389.5	394.3	403.7
165°	383.8	381.6	379.4	381.6	383.8	384.4	386.2	388.4	389.5	392.9	399.7
167.5°	387.6	386.5	385.5	386.5	387.6	387.9	389.3	391.2	392.1	394.4	398.9
170°	391.6	390.5	389.5	390.5	391.6	391.9	392.0	392.0	392.1	394.4	398.9
172.5°	392.0	391.9	391.6	391.9	392.0	392.1	392.1	392.1	392.1	393.9	397.4
175°	394.5	394.5	394.5	394.5	394.5	394.5	393.8	392.6	392.1	393.2	395.5
177.5°	394.5	394.5	394.5	394.5	394.5	394.5	393.9	393.1	392.6	393.5	395.3
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934831

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1151.1	1147.7	1152.2	1139.7	1152.2	1147.7	1151.1	1159.0	1152.2	1156.7	1161.3
5°	1010.0	1004.4	986.3	971.7	986.3	1004.4	1010.0	1033.8	1045.0	1065.3	1092.4
7.5°	902.8	898.3	893.8	884.7	893.8	898.3	902.8	909.6	920.8	938.9	959.3
10°	879.1	880.3	887.0	885.9	887.0	880.3	879.1	876.8	873.4	876.8	889.2
12.5°	940.1	950.2	987.5	985.2	987.5	950.2	940.1	894.9	864.5	858.8	861.0
15°	1010.0	1013.4	1021.3	1022.4	1021.3	1013.4	1010.0	992.0	900.5	861.0	848.7
17.5°	1016.8	1017.9	1023.6	1023.6	1023.6	1017.9	1016.8	1008.9	978.4	925.4	855.4
20°	1011.1	1013.4	1024.7	1026.9	1024.7	1013.4	1011.1	1001.0	984.0	964.9	911.9
22.5°	1008.9	1013.4	1022.4	1021.3	1022.4	1013.4	1008.9	993.1	978.4	964.9	943.5
25°	997.6	997.6	998.7	999.8	998.7	997.6	997.6	985.2	955.9	952.4	940.1
27.5°	973.9	976.2	982.9	981.8	982.9	976.2	973.9	969.3	937.7	934.4	925.4
30°	952.4	950.2	944.6	940.1	944.6	950.2	952.4	945.7	914.1	905.0	907.3
32.5°	916.3	910.7	905.0	901.7	905.0	910.7	916.3	914.1	890.4	878.0	880.3
35°	873.4	874.6	873.4	870.1	873.4	874.6	873.4	875.7	861.0	849.8	848.7
37.5°	843.0	845.2	844.1	839.6	844.1	845.2	843.0	840.7	820.4	817.1	819.3
40°	811.4	812.5	811.4	808.0	811.4	812.5	811.4	806.9	778.7	779.8	787.7
42.5°	780.9	779.8	776.4	774.2	776.4	779.8	780.9	774.2	738.1	734.6	749.3
45°	745.9	747.1	740.3	736.9	740.3	747.1	745.9	741.5	704.2	695.2	705.3
47.5°	711.0	711.0	705.3	701.9	705.3	711.0	711.0	705.3	665.8	656.8	662.5
50°	673.7	672.6	664.7	663.6	664.7	672.6	673.7	670.3	628.6	620.7	620.7
52.5°	630.9	630.9	632.0	634.2	632.0	630.9	630.9	632.0	594.7	586.8	584.6
55°	593.6	594.7	602.6	604.9	602.6	594.7	593.6	593.6	559.7	551.9	547.3
57.5°	555.2	555.2	560.9	560.9	560.9	555.2	555.2	553.0	520.2	513.5	511.2
60°	511.2	513.5	517.9	516.8	517.9	513.5	511.2	509.0	480.7	476.3	468.3
62.5°	464.9	467.2	468.3	466.1	468.3	467.2	464.9	458.2	441.2	437.8	427.7
65°	416.4	418.7	419.8	417.6	419.8	418.7	416.4	413.1	400.6	394.9	386.0
67.5°	366.8	365.7	364.5	369.0	364.5	365.7	366.8	362.2	354.4	349.9	337.4
70°	315.9	315.9	314.8	317.1	314.8	315.9	315.9	312.6	308.1	304.7	293.4
72.5°	261.8	260.7	265.2	261.8	265.2	260.7	261.8	260.7	258.5	255.0	243.8
75°	208.7	211.1	208.7	212.2	208.7	211.1	208.7	209.9	208.7	206.5	198.6
77.5°	159.1	161.3	159.1	159.1	159.1	161.3	159.1	160.2	160.2	160.2	153.5
80°	112.8	111.7	111.7	110.6	111.7	111.7	112.8	112.8	113.9	111.7	109.5
82.5°	72.3	71.1	71.1	73.4	71.1	71.1	72.3	73.4	71.1	71.1	71.1
85°	39.5	40.7	38.4	38.4	38.4	40.7	39.5	37.2	39.5	39.5	38.4
87.5°	14.7	13.6	13.6	13.6	13.6	13.6	14.7	15.8	15.8	15.8	16.9
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.2	17.3
92.5°	50.3	48.3	40.3	32.3	40.3	48.3	50.3	71.3	99.3	113.3	99.5
95°	170.7	164.7	140.5	116.2	140.5	164.7	170.7	224.2	295.5	331.2	279.7
97.5°	394.3	382.7	336.6	290.5	336.6	382.7	394.3	428.1	473.1	495.7	409.8
100°	553.6	539.9	485.0	430.0	485.0	539.9	553.6	551.2	547.8	546.2	451.0
102.5°	689.7	677.9	630.9	583.8	630.9	677.9	689.7	646.7	589.3	560.6	464.0
105°	848.6	842.3	817.0	791.7	817.0	842.3	848.6	752.1	623.3	558.9	465.4
107.5°	931.2	932.7	938.9	945.0	938.9	932.7	931.2	796.5	616.9	527.2	444.7
110°	952.4	958.9	985.3	1011.7	985.3	958.9	952.4	801.8	601.0	500.7	426.3



TEST NUMBER: P934831

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	938.9	949.0	989.5	1030.0	989.5	949.0	938.9	784.8	579.4	476.6	410.3
115°	893.1	907.1	963.3	1019.4	963.3	907.1	893.1	744.6	546.7	447.7	391.9
117.5°	829.8	845.3	907.6	969.9	907.6	845.3	829.8	695.8	517.2	427.8	380.3
120°	787.2	802.3	862.8	923.2	862.8	802.3	787.2	664.8	501.5	419.9	376.5
122.5°	744.5	759.5	819.1	878.8	819.1	759.5	744.5	634.3	487.3	413.8	374.4
125°	688.2	701.9	756.8	811.8	756.8	701.9	688.2	594.6	469.7	407.2	372.8
127.5°	642.9	654.5	700.8	747.2	700.8	654.5	642.9	562.5	455.3	401.7	371.9
130°	614.3	625.0	667.8	710.6	667.8	625.0	614.3	542.7	447.3	399.6	372.4
132.5°	589.9	599.5	637.9	676.2	637.9	599.5	589.9	525.9	440.4	397.7	372.8
135°	555.5	563.8	596.9	629.9	596.9	563.8	555.5	501.9	430.3	394.5	372.5
137.5°	530.1	536.8	563.9	591.0	563.9	536.8	530.1	484.7	424.2	394.0	374.8
140°	509.7	516.0	541.3	566.6	541.3	516.0	509.7	470.5	418.3	392.1	375.1
142.5°	495.4	500.9	522.6	544.3	522.6	500.9	495.4	461.0	415.1	392.1	376.5
145°	474.0	478.1	494.5	511.0	494.5	478.1	474.0	445.8	408.3	389.5	376.5
147.5°	455.9	459.4	473.0	486.7	473.0	459.4	455.9	433.8	404.3	389.5	379.1
150°	445.6	448.3	459.4	470.5	459.4	448.3	445.6	426.9	402.0	389.5	380.4
152.5°	437.4	439.4	447.8	456.2	447.8	439.4	437.4	421.4	400.2	389.5	381.3
155°	427.6	428.9	434.5	440.0	434.5	428.9	427.6	414.8	397.9	389.5	383.2
157.5°	419.1	420.1	424.0	427.8	424.0	420.1	419.1	409.2	396.1	389.5	385.2
160°	414.9	415.4	417.7	419.9	417.7	415.4	414.9	406.5	395.1	389.5	386.1
162.5°	410.9	411.4	413.6	415.7	413.6	411.4	410.9	403.7	394.3	389.5	387.0
165°	404.9	405.5	407.7	409.9	407.7	405.5	404.9	399.7	392.9	389.5	388.4
167.5°	402.2	402.5	403.4	404.3	403.4	402.5	402.2	398.9	394.4	392.1	391.2
170°	402.2	402.2	402.2	402.2	402.2	402.2	402.2	398.9	394.4	392.1	392.0
172.5°	400.1	399.9	399.0	398.2	399.0	399.9	400.1	397.4	393.9	392.1	392.1
175°	397.2	397.2	397.2	397.2	397.2	397.2	397.2	395.5	393.2	392.1	392.6
177.5°	396.7	396.4	395.5	394.5	395.5	396.4	396.7	395.3	393.5	392.6	393.1
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1178.2	1183.8	1187.2	1191.7	1203.0
5°	1133.0	1154.4	1161.3	1178.2	1198.5
7.5°	1033.8	1099.2	1117.2	1157.9	1189.5
10°	937.7	1003.3	1034.9	1130.8	1178.2
12.5°	889.2	927.7	949.1	1083.4	1162.4
15°	858.8	885.9	901.7	1020.2	1144.3
17.5°	835.1	854.3	865.6	958.1	1119.5
20°	820.4	829.4	839.6	913.0	1091.2
22.5°	810.2	804.6	812.5	881.4	1052.9
25°	803.5	782.0	791.1	856.5	1007.8
27.5°	809.1	761.7	765.1	834.0	960.4
30°	810.2	736.9	738.1	810.2	907.3
32.5°	802.4	711.0	712.1	780.9	847.5
35°	783.1	680.5	679.4	747.1	766.2
37.5°	757.2	647.8	647.8	709.9	677.1
40°	725.7	615.1	618.4	661.3	598.1
42.5°	687.2	580.0	584.6	597.0	539.5
45°	645.5	546.2	549.5	504.4	494.3
47.5°	599.3	511.2	512.3	418.7	479.6
50°	543.9	475.1	470.6	358.9	478.5
52.5°	495.4	435.6	422.0	325.0	434.5
55°	448.0	393.8	364.5	299.0	402.9
57.5°	406.2	339.7	311.5	268.6	396.1
60°	367.9	286.6	265.2	235.8	363.3
62.5°	336.3	247.2	242.7	213.3	329.5
65°	302.4	220.0	218.9	194.1	279.9
67.5°	269.7	202.0	200.9	176.0	213.3
70°	234.7	182.8	180.6	156.9	158.0
72.5°	198.6	161.3	159.1	141.1	130.9
75°	162.5	136.6	135.4	123.0	106.1
77.5°	127.5	108.3	110.6	99.3	77.9
80°	91.4	79.0	81.2	71.1	58.7
82.5°	60.9	51.9	54.2	45.1	39.5
85°	33.8	29.4	30.5	23.7	18.0
87.5°	15.8	13.6	13.6	9.1	5.6
90°	11.7	7.4	6.9	4.8	2.6
92.5°	71.8	51.1	46.5	28.6	10.6
95°	176.8	99.6	91.4	58.4	25.5
97.5°	238.1	109.3	102.1	73.0	44.0
100°	260.4	117.5	111.0	84.6	58.3
102.5°	270.7	125.7	119.6	95.1	70.5
105°	278.3	137.9	132.7	111.9	91.1
107.5°	279.7	156.0	151.1	131.7	112.2
110°	277.6	166.0	161.7	144.1	126.6



TEST NUMBER: P934831

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	277.7	178.2	174.0	157.3	140.6
115°	280.2	196.4	192.6	177.1	161.8
117.5°	285.4	214.2	210.7	196.7	182.7
120°	289.6	224.6	221.2	208.1	194.9
122.5°	295.7	236.7	233.3	220.1	206.8
125°	304.0	252.3	249.3	237.2	225.1
127.5°	312.2	267.4	264.4	252.1	239.9
130°	318.2	277.5	274.2	261.0	247.9
132.5°	323.0	285.7	282.4	269.2	256.1
135°	328.3	295.2	292.2	280.2	268.2
137.5°	336.3	307.4	304.4	292.5	280.7
140°	341.1	315.6	312.9	301.9	291.0
142.5°	345.2	321.7	319.1	309.0	298.9
145°	350.4	331.0	328.8	320.0	311.1
147.5°	358.2	342.6	340.5	331.8	323.3
150°	362.3	348.7	346.8	339.0	331.2
152.5°	365.0	352.7	351.2	345.3	339.4
155°	370.8	361.4	360.3	356.0	351.6
157.5°	376.6	370.2	369.2	364.9	360.6
160°	379.2	374.1	373.3	370.0	366.7
162.5°	382.1	378.4	377.8	375.3	372.8
165°	386.2	384.4	383.8	381.6	379.4
167.5°	389.3	387.9	387.6	386.5	385.5
170°	392.0	391.9	391.6	390.5	389.5
172.5°	392.1	392.1	392.0	391.9	391.6
175°	393.8	394.5	394.5	394.5	394.5
177.5°	393.9	394.5	394.5	394.5	394.5
180°	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934831
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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	13.57	14.48	14.49	15.41	16.62	16.37	17.28	17.29	18.21	19.41
	3H	14.06	14.87	14.98	15.81	17.04	17.71	18.52	18.64	19.47	20.69
	4H	14.25	15.02	15.19	15.96	17.20	18.15	18.92	19.09	19.87	21.10
	6H	14.37	15.08	15.32	16.03	17.28	18.43	19.14	19.38	20.09	21.34
	8H	14.37	15.05	15.33	16.02	17.26	18.50	19.18	19.46	20.15	21.39
	12H	14.35	14.99	15.31	15.95	17.22	18.54	19.18	19.50	20.14	21.41
4H	2H	14.60	15.37	15.55	16.32	17.56	16.79	17.56	17.74	18.50	19.74
	3H	15.64	16.27	16.59	17.25	18.50	18.29	18.93	19.25	19.91	21.16
	4H	15.91	16.50	16.88	17.47	18.74	18.81	19.40	19.78	20.37	21.64
	6H	16.04	16.54	17.02	17.54	18.81	19.17	19.67	20.15	20.67	21.94
	8H	16.05	16.52	17.03	17.51	18.80	19.27	19.74	20.26	20.73	22.02
	12H	16.02	16.44	17.02	17.45	18.74	19.33	19.75	20.33	20.76	22.05
8H	4H	16.37	16.84	17.35	17.83	19.11	18.94	19.41	19.92	20.40	21.69
	6H	16.63	17.02	17.64	18.05	19.33	19.37	19.76	20.38	20.79	22.08
	8H	16.67	17.01	17.69	18.03	19.34	19.52	19.86	20.53	20.88	22.18
	12H	16.66	16.96	17.68	17.97	19.32	19.61	19.92	20.63	20.93	22.28
12H	4H	16.37	16.80	17.37	17.80	19.10	18.91	19.33	19.91	20.34	21.63
	6H	16.69	17.03	17.70	18.05	19.35	19.37	19.71	20.38	20.73	22.03
	8H	16.76	17.06	17.78	18.07	19.42	19.53	19.83	20.55	20.84	22.19