

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: P934832

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934832
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

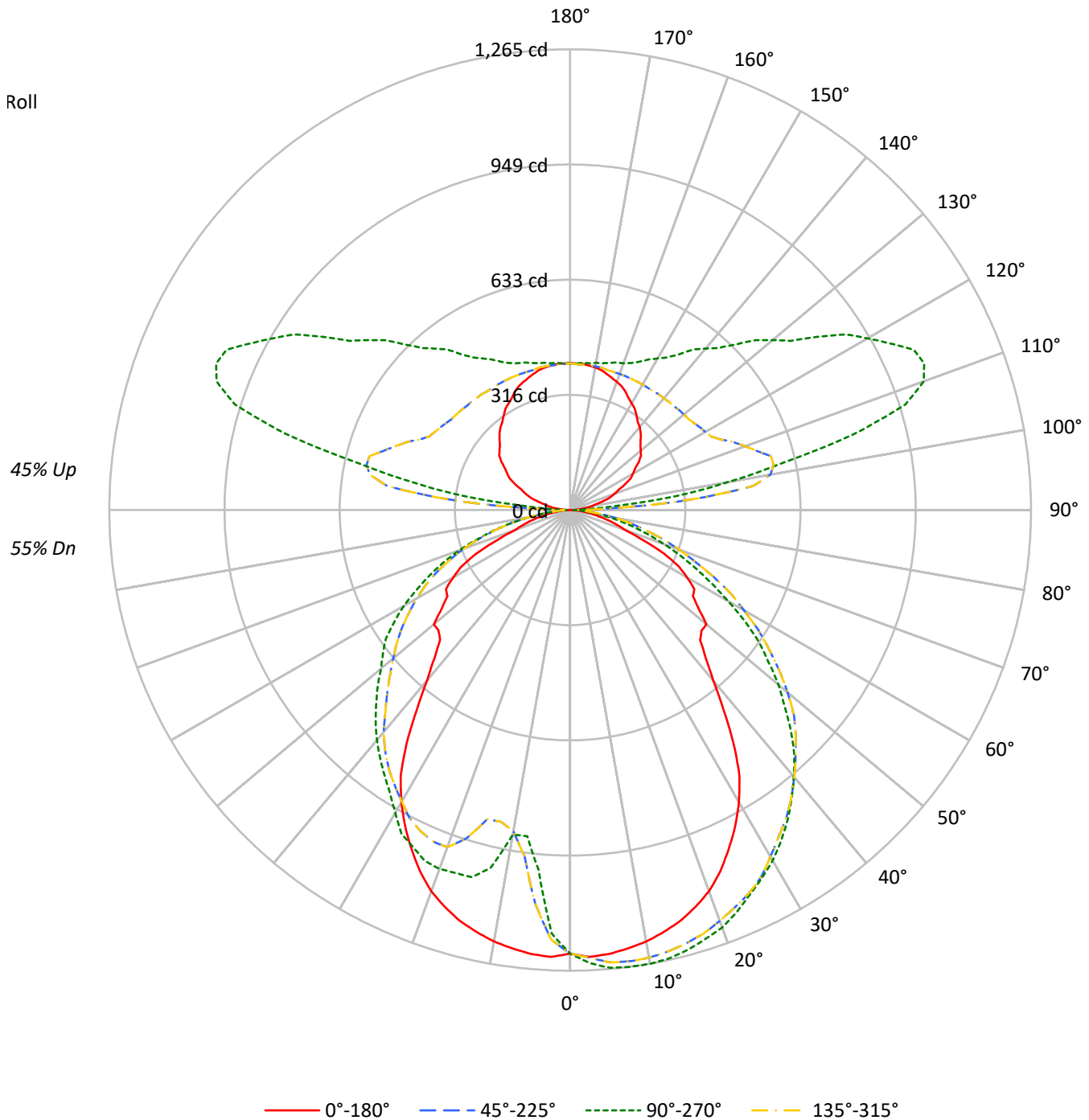
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5770.3 lumens
Efficiency: N/A
Efficacy: 112.7 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 (A_{in}): 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°	11300	11300	11300	11300
5°	11373	11408	11373	8970
10°	11284	11237	11284	8034
15°	11149	10993	11149	9179
20°	10902	10705	10902	9198
25°	10413	10284	10413	9004
30°	9785	9935	9785	8577
35°	8709	9493	8709	8105
40°	7246	8973	7246	7750
45°	6460	8365	6460	7342
50°	6848	7639	6848	6932
55°	6425	6857	6425	6695
60°	6599	5823	6599	6131
65°	5956	4813	5956	5381
70°	4095	3837	4095	4511
75°	3551	2836	3551	3396
80°	2803	1875	2803	2041
85°	1524	991	1524	845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.9
10°-20°	312.1	5.4
20°-30°	482.5	8.4
30°-40°	576.0	10.0
40°-50°	579.4	10.0
50°-60°	504.1	8.7
60°-70°	357.4	6.2
70°-80°	189.1	3.3
80°-90°	48.6	0.8
90°-100°	196.3	3.4
100°-110°	516.2	8.9
110°-120°	535.2	9.3
120°-130°	429.3	7.4
130°-140°	336.9	5.8
140°-150°	258.5	4.5
150°-160°	186.2	3.2
160°-170°	113.9	2.0
170°-180°	38.5	0.7
0°-30°	904.5	15.7
0°-40°	1480.5	25.7
0°-60°	2564.0	44.4
0°-90°	3159.2	54.7
90°-120°	1247.7	21.6
90°-150°	2272.5	39.4
90°-180°	2611.0	45.2
0°-180°	5770.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1218	1218	1218	1218	1218	
5°	1224	1262	1224	992	1224	116
15°	1168	1250	1168	1044	1168	329
25°	1029	1166	1029	1021	1029	472
35°	782	1040	782	888	782	484
45°	505	857	505	752	505	404
55°	411	633	411	618	411	378
65°	286	381	286	426	286	273
75°	108	181	108	217	108	114
85°	18	46	18	39	18	25
90°	3	10	3	10	3	3
95°	26	119	26	119	26	29
105°	93	808	93	808	93	99
115°	165	1041	165	1041	165	163
125°	230	829	230	829	230	204
135°	274	643	274	643	274	212
145°	318	522	318	522	318	199
155°	359	449	359	449	359	165
165°	387	418	387	418	387	109
175°	403	406	403	406	403	38
180°	403	403	403	403	403	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1228.2	1228.2	1235.1	1237.4	1237.4	1233.9	1230.5	1233.9	1244.3	1247.8	1246.7
5°	1223.6	1232.8	1245.5	1247.8	1250.1	1248.9	1246.7	1248.9	1260.4	1262.8	1263.9
7.5°	1214.4	1231.7	1247.8	1251.3	1254.7	1251.3	1250.1	1252.4	1263.9	1266.2	1266.2
10°	1202.9	1227.0	1245.5	1247.8	1251.3	1247.8	1247.8	1252.4	1263.9	1266.2	1267.4
12.5°	1186.8	1220.1	1237.4	1239.8	1244.3	1243.2	1242.0	1246.7	1258.2	1260.4	1260.4
15°	1168.3	1207.5	1223.6	1225.9	1233.9	1231.7	1231.7	1236.3	1248.9	1252.4	1251.3
17.5°	1143.0	1191.4	1209.8	1213.3	1219.0	1217.8	1219.0	1223.6	1235.1	1237.4	1238.5
20°	1114.1	1169.5	1191.4	1194.8	1200.5	1200.5	1200.5	1206.3	1217.8	1222.4	1222.4
22.5°	1075.0	1146.4	1169.5	1171.8	1178.6	1178.6	1181.0	1189.0	1199.4	1200.5	1200.5
25°	1028.9	1121.1	1140.6	1147.6	1154.5	1157.9	1161.4	1166.0	1169.5	1168.3	1169.5
27.5°	980.5	1088.8	1114.1	1118.7	1128.0	1131.5	1136.0	1137.2	1138.4	1141.8	1139.5
30°	926.4	1043.8	1081.8	1086.5	1101.5	1103.7	1099.2	1101.5	1107.2	1109.6	1111.8
32.5°	865.2	977.0	1048.4	1058.8	1072.7	1065.7	1064.6	1068.1	1077.3	1077.3	1079.6
35°	782.3	925.2	1017.4	1026.6	1036.9	1028.9	1033.4	1034.7	1040.4	1043.8	1042.7
37.5°	691.3	880.2	985.1	992.0	1000.0	989.7	996.6	1000.0	1004.7	1002.4	1002.4
40°	610.7	809.9	947.1	951.7	958.6	950.5	957.4	959.8	962.0	959.8	958.6
42.5°	550.8	732.8	906.7	912.5	907.9	913.6	916.0	920.6	917.1	912.5	912.5
45°	504.6	712.0	863.0	869.9	863.0	872.2	875.6	875.6	865.2	863.0	861.8
47.5°	489.6	670.6	819.2	819.2	815.7	827.2	833.1	824.9	814.6	811.2	811.2
50°	488.5	624.5	759.3	754.7	770.8	784.7	778.9	770.8	762.8	750.0	750.0
52.5°	443.6	568.0	682.1	699.4	724.7	732.8	723.5	715.5	701.6	695.9	691.3
55°	411.3	509.3	611.8	646.4	672.9	683.2	666.0	657.9	637.1	633.7	631.4
57.5°	404.4	424.0	547.3	591.1	623.3	622.2	611.8	596.8	579.6	576.1	574.9
60°	371.0	306.4	478.1	530.0	563.4	559.9	550.8	536.9	520.8	518.5	516.2
62.5°	336.4	222.4	399.8	458.6	505.8	504.6	496.6	475.9	464.4	458.6	454.0
65°	285.8	186.6	284.5	381.3	449.4	451.6	434.4	419.4	406.7	399.8	398.6
67.5°	217.7	152.1	192.4	318.0	395.2	392.9	371.0	364.1	347.9	344.5	337.6
70°	161.3	101.4	133.7	258.1	342.2	336.4	319.2	311.1	296.1	288.0	283.4
72.5°	133.7	81.8	97.9	200.5	288.0	281.1	266.1	256.9	244.3	237.4	232.7
75°	108.3	86.4	74.9	148.6	233.9	229.3	215.5	206.2	195.9	186.6	187.8
77.5°	79.5	80.7	59.9	109.4	185.5	178.6	170.5	159.0	154.4	145.2	145.2
80°	59.9	63.4	44.9	74.9	133.7	133.7	126.7	118.7	110.6	106.0	106.0
82.5°	40.3	40.3	33.4	47.3	91.0	87.6	82.9	80.7	76.0	73.8	73.8
85°	18.4	23.0	20.8	28.8	49.5	51.9	51.9	49.5	48.4	46.0	47.3
87.5°	5.8	10.4	12.6	16.1	25.4	26.5	27.6	27.6	27.6	28.8	28.8
90°	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.3	13.7	10.3	10.3
92.5°	10.8	29.2	47.5	52.1	73.3	101.6	115.7	101.4	72.8	51.4	49.4
95°	26.0	59.6	93.3	101.7	180.5	285.6	338.2	301.7	228.9	174.3	168.1
97.5°	44.9	74.6	104.2	111.6	243.1	418.4	506.0	483.0	437.1	402.5	390.8
100°	59.5	86.3	113.3	120.0	265.9	460.4	557.7	559.3	562.7	565.3	551.2
102.5°	71.9	97.1	122.1	128.4	276.3	473.7	572.3	601.6	660.2	704.2	692.1
105°	93.0	114.2	135.5	140.8	284.1	475.2	570.7	636.4	767.8	866.4	859.9
107.5°	114.6	134.5	154.3	159.2	285.6	454.0	538.2	629.9	813.2	950.7	952.3
110°	129.2	147.1	165.1	169.5	283.4	435.2	511.2	613.7	818.6	972.3	979.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	143.5	160.6	177.6	181.9	283.5	418.9	486.6	591.5	801.2	958.5	968.9
115°	165.2	180.9	196.6	200.6	286.1	400.1	457.1	558.2	760.2	911.8	926.1
117.5°	186.5	200.8	215.1	218.7	291.4	388.3	436.8	528.0	710.4	847.2	863.1
120°	199.0	212.4	225.9	229.3	295.7	384.4	428.7	512.1	678.7	803.7	819.1
122.5°	211.1	224.7	238.2	241.6	301.9	382.3	422.5	497.5	647.6	760.2	775.4
125°	229.8	242.2	254.5	257.6	310.4	380.6	415.8	479.5	607.0	702.6	716.6
127.5°	245.0	257.4	269.9	273.0	318.7	379.7	410.1	464.9	574.3	656.4	668.2
130°	253.1	266.5	279.9	283.3	324.8	380.2	407.9	456.7	554.1	627.2	638.1
132.5°	261.4	274.9	288.3	291.7	329.8	380.6	406.0	449.6	536.9	602.3	612.1
135°	273.8	286.0	298.3	301.4	335.2	380.3	402.8	439.3	512.4	567.2	575.6
137.5°	286.6	298.7	310.8	313.8	343.3	382.6	402.3	433.1	494.9	541.2	548.1
140°	297.1	308.3	319.4	322.2	348.3	383.0	400.4	427.0	480.3	520.3	526.8
142.5°	305.2	315.5	325.8	328.4	352.4	384.4	400.4	423.8	470.6	505.8	511.4
145°	317.6	326.7	335.6	337.9	357.8	384.4	397.6	416.8	455.1	483.9	488.1
147.5°	330.1	338.8	347.6	349.8	365.7	387.0	397.6	412.7	442.9	465.5	469.0
150°	338.2	346.1	354.0	356.1	369.9	388.4	397.6	410.4	435.8	454.9	457.7
152.5°	346.5	352.6	358.6	360.1	372.6	389.3	397.6	408.5	430.3	446.6	448.7
155°	359.0	363.5	367.8	369.0	378.5	391.3	397.6	406.3	423.5	436.5	437.9
157.5°	368.2	372.5	376.9	377.9	384.5	393.3	397.6	404.4	417.8	427.9	428.9
160°	374.4	377.8	381.1	382.0	387.2	394.2	397.6	403.4	415.0	423.6	424.2
162.5°	380.6	383.2	385.7	386.3	390.1	395.1	397.6	402.5	412.2	419.5	420.1
165°	387.4	389.6	391.9	392.5	394.2	396.5	397.6	401.1	408.1	413.3	414.0
167.5°	393.5	394.6	395.7	396.0	397.5	399.4	400.4	402.6	407.2	410.6	410.9
170°	397.6	398.7	399.8	400.1	400.2	400.3	400.4	402.6	407.2	410.6	410.6
172.5°	399.8	400.1	400.3	400.4	400.4	400.4	400.4	402.2	405.8	408.5	408.3
175°	402.8	402.8	402.8	402.8	402.0	400.9	400.4	401.5	403.8	405.5	405.5
177.5°	402.8	402.8	402.8	402.8	402.2	401.3	400.9	401.7	403.6	405.0	404.7
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1248.9	1245.5	1248.9	1246.7	1247.8	1244.3	1233.9	1230.5	1233.9	1237.4	1237.4
5°	1263.9	1261.7	1263.9	1263.9	1262.8	1260.4	1248.9	1246.7	1248.9	1250.1	1247.8
7.5°	1268.5	1265.1	1268.5	1266.2	1266.2	1263.9	1252.4	1250.1	1251.3	1254.7	1251.3
10°	1268.5	1265.1	1268.5	1267.4	1266.2	1263.9	1252.4	1247.8	1247.8	1251.3	1247.8
12.5°	1262.8	1260.4	1262.8	1260.4	1260.4	1258.2	1246.7	1242.0	1243.2	1244.3	1239.8
15°	1253.5	1250.1	1253.5	1251.3	1252.4	1248.9	1236.3	1231.7	1231.7	1233.9	1225.9
17.5°	1239.8	1235.1	1239.8	1238.5	1237.4	1235.1	1223.6	1219.0	1217.8	1219.0	1213.3
20°	1223.6	1220.1	1223.6	1222.4	1222.4	1217.8	1206.3	1200.5	1200.5	1200.5	1194.8
22.5°	1198.3	1194.8	1198.3	1200.5	1200.5	1199.4	1189.0	1181.0	1178.6	1178.6	1171.8
25°	1169.5	1166.0	1169.5	1169.5	1168.3	1169.5	1166.0	1161.4	1157.9	1154.5	1147.6
27.5°	1141.8	1139.5	1141.8	1139.5	1141.8	1138.4	1137.2	1136.0	1131.5	1128.0	1118.7
30°	1114.1	1111.8	1114.1	1111.8	1109.6	1107.2	1101.5	1099.2	1103.7	1101.5	1086.5
32.5°	1079.6	1077.3	1079.6	1079.6	1077.3	1077.3	1068.1	1064.6	1065.7	1072.7	1058.8
35°	1043.8	1040.4	1043.8	1042.7	1043.8	1040.4	1034.7	1033.4	1028.9	1036.9	1026.6
37.5°	1002.4	998.9	1002.4	1002.4	1002.4	1004.7	1000.0	996.6	989.7	1000.0	992.0
40°	959.8	955.1	959.8	958.6	959.8	962.0	959.8	957.4	950.5	958.6	951.7
42.5°	911.4	910.2	911.4	912.5	912.5	917.1	920.6	916.0	913.6	907.9	912.5
45°	859.5	857.2	859.5	861.8	863.0	865.2	875.6	875.6	872.2	863.0	869.9
47.5°	804.2	798.4	804.2	811.2	811.2	814.6	824.9	833.1	827.2	815.7	819.2
50°	745.4	746.6	745.4	750.0	750.0	762.8	770.8	778.9	784.7	770.8	754.7
52.5°	687.9	686.7	687.9	691.3	695.9	701.6	715.5	723.5	732.8	724.7	699.4
55°	630.2	632.6	630.2	631.4	633.7	637.1	657.9	666.0	683.2	672.9	646.4
57.5°	572.7	569.2	572.7	574.9	576.1	579.6	596.8	611.8	622.2	623.3	591.1
60°	505.8	501.2	505.8	516.2	518.5	520.8	536.9	550.8	559.9	563.4	530.0
62.5°	447.0	439.0	447.0	454.0	458.6	464.4	475.9	496.6	504.6	505.8	458.6
65°	384.8	381.3	384.8	398.6	399.8	406.7	419.4	434.4	451.6	449.4	381.3
67.5°	328.4	328.4	328.4	337.6	344.5	347.9	364.1	371.0	392.9	395.2	318.0
70°	276.5	275.4	276.5	283.4	288.0	296.1	311.1	319.2	336.4	342.2	258.1
72.5°	227.0	225.9	227.0	232.7	237.4	244.3	256.9	266.1	281.1	288.0	200.5
75°	183.2	180.9	183.2	187.8	186.6	195.9	206.2	215.5	229.3	233.9	148.6
77.5°	140.6	140.6	140.6	145.2	145.2	154.4	159.0	170.5	178.6	185.5	109.4
80°	104.8	103.7	104.8	106.0	106.0	110.6	118.7	126.7	133.7	133.7	74.9
82.5°	73.8	71.4	73.8	73.8	73.8	76.0	80.7	82.9	87.6	91.0	47.3
85°	46.0	46.0	46.0	47.3	46.0	48.4	49.5	51.9	51.9	49.5	28.8
87.5°	30.0	28.8	30.0	28.8	28.8	27.6	27.6	27.6	26.5	25.4	16.1
90°	10.3	10.3	10.3	10.3	10.3	13.7	18.3	20.6	17.7	11.9	7.6
92.5°	41.2	33.0	41.2	49.4	51.4	72.8	101.4	115.7	101.6	73.3	52.1
95°	143.4	118.7	143.4	168.1	174.3	228.9	301.7	338.2	285.6	180.5	101.7
97.5°	343.7	296.6	343.7	390.8	402.5	437.1	483.0	506.0	418.4	243.1	111.6
100°	495.1	439.0	495.1	551.2	565.3	562.7	559.3	557.7	460.4	265.9	120.0
102.5°	644.1	596.0	644.1	692.1	704.2	660.2	601.6	572.3	473.7	276.3	128.4
105°	834.1	808.3	834.1	859.9	866.4	767.8	636.4	570.7	475.2	284.1	140.8
107.5°	958.5	964.8	958.5	952.3	950.7	813.2	629.9	538.2	454.0	285.6	159.2
110°	1006.0	1032.9	1006.0	979.0	972.3	818.6	613.7	511.2	435.2	283.4	169.5



TEST NUMBER: P934832

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1010.3	1051.6	1010.3	968.9	958.5	801.2	591.5	486.6	418.9	283.5	181.9
115°	983.5	1040.8	983.5	926.1	911.8	760.2	558.2	457.1	400.1	286.1	200.6
117.5°	926.6	990.2	926.6	863.1	847.2	710.4	528.0	436.8	388.3	291.4	218.7
120°	880.8	942.6	880.8	819.1	803.7	678.7	512.1	428.7	384.4	295.7	229.3
122.5°	836.3	897.2	836.3	775.4	760.2	647.6	497.5	422.5	382.3	301.9	241.6
125°	772.7	828.8	772.7	716.6	702.6	607.0	479.5	415.8	380.6	310.4	257.6
127.5°	715.5	762.9	715.5	668.2	656.4	574.3	464.9	410.1	379.7	318.7	273.0
130°	681.8	725.5	681.8	638.1	627.2	554.1	456.7	407.9	380.2	324.8	283.3
132.5°	651.2	690.4	651.2	612.1	602.3	536.9	449.6	406.0	380.6	329.8	291.7
135°	609.4	643.1	609.4	575.6	567.2	512.4	439.3	402.8	380.3	335.2	301.4
137.5°	575.7	603.4	575.7	548.1	541.2	494.9	433.1	402.3	382.6	343.3	313.8
140°	552.7	578.5	552.7	526.8	520.3	480.3	427.0	400.4	383.0	348.3	322.2
142.5°	533.5	555.7	533.5	511.4	505.8	470.6	423.8	400.4	384.4	352.4	328.4
145°	504.9	521.7	504.9	488.1	483.9	455.1	416.8	397.6	384.4	357.8	337.9
147.5°	482.9	496.9	482.9	469.0	465.5	442.9	412.7	397.6	387.0	365.7	349.8
150°	469.1	480.4	469.1	457.7	454.9	435.8	410.4	397.6	388.4	369.9	356.1
152.5°	457.2	465.8	457.2	448.7	446.6	430.3	408.5	397.6	389.3	372.6	360.1
155°	443.6	449.3	443.6	437.9	436.5	423.5	406.3	397.6	391.3	378.5	369.0
157.5°	432.9	436.8	432.9	428.9	427.9	417.8	404.4	397.6	393.3	384.5	377.9
160°	426.4	428.7	426.4	424.2	423.6	415.0	403.4	397.6	394.2	387.2	382.0
162.5°	422.2	424.4	422.2	420.1	419.5	412.2	402.5	397.6	395.1	390.1	386.3
165°	416.2	418.5	416.2	414.0	413.3	408.1	401.1	397.6	396.5	394.2	392.5
167.5°	411.9	412.8	411.9	410.9	410.6	407.2	402.6	400.4	399.4	397.5	396.0
170°	410.6	410.6	410.6	410.6	410.6	407.2	402.6	400.4	400.3	400.2	400.1
172.5°	407.4	406.5	407.4	408.3	408.5	405.8	402.2	400.4	400.4	400.4	400.4
175°	405.5	405.5	405.5	405.5	405.5	403.8	401.5	400.4	400.9	402.0	402.8
177.5°	403.8	402.8	403.8	404.7	405.0	403.6	401.7	400.9	401.3	402.2	402.8
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934832

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1235.1	1228.2	1228.2	1216.7	1212.0	1208.6	1202.9	1185.6	1181.0	1176.4	1183.3
5°	1245.5	1232.8	1223.6	1202.9	1185.6	1178.6	1156.8	1115.3	1087.6	1066.9	1055.4
7.5°	1247.8	1231.7	1214.4	1182.1	1140.6	1122.2	1055.4	979.4	958.6	940.1	928.6
10°	1245.5	1227.0	1202.9	1154.5	1056.6	1024.3	957.4	907.9	895.2	891.7	895.2
12.5°	1237.4	1220.1	1186.8	1106.1	969.0	947.1	907.9	879.1	876.8	882.6	913.6
15°	1223.6	1207.5	1168.3	1041.6	920.6	904.5	876.8	866.5	879.1	919.4	1012.8
17.5°	1209.8	1191.4	1143.0	978.2	883.7	872.2	852.6	873.3	944.8	998.9	1030.0
20°	1191.4	1169.5	1114.1	932.1	857.2	846.8	837.6	931.0	985.1	1004.7	1021.9
22.5°	1169.5	1146.4	1075.0	899.9	829.6	821.5	827.2	963.2	985.1	998.9	1013.9
25°	1140.6	1121.1	1028.9	874.5	807.7	798.4	820.3	959.8	972.4	975.9	1005.8
27.5°	1114.1	1088.8	980.5	851.5	781.2	777.7	826.1	944.8	954.0	957.4	989.7
30°	1081.8	1043.8	926.4	827.2	753.5	752.4	827.2	926.4	924.0	933.3	965.5
32.5°	1048.4	977.0	865.2	797.3	727.0	725.9	819.2	898.7	896.4	909.1	933.3
35°	1017.4	925.2	782.3	762.8	693.6	694.7	799.6	866.5	867.6	879.1	894.1
37.5°	985.1	880.2	691.3	724.7	661.4	661.4	773.1	836.5	834.2	837.6	858.3
40°	947.1	809.9	610.7	675.1	631.4	628.0	740.9	804.2	796.2	795.0	823.8
42.5°	906.7	732.8	550.8	609.5	596.8	592.2	701.6	765.0	750.0	753.5	790.4
45°	863.0	712.0	504.6	515.0	561.1	557.7	659.0	720.1	709.7	719.0	757.0
47.5°	819.2	670.6	489.6	427.5	523.0	521.9	611.8	676.3	670.6	679.8	720.1
50°	759.3	624.5	488.5	366.4	480.5	485.0	555.3	633.7	633.7	641.7	684.4
52.5°	682.1	568.0	443.6	331.8	430.9	444.7	505.8	596.8	599.1	607.2	645.2
55°	611.8	509.3	411.3	305.3	372.2	402.1	457.4	558.8	563.4	571.4	606.1
57.5°	547.3	424.0	404.4	274.3	318.0	346.8	414.7	521.9	524.3	531.2	564.6
60°	478.1	306.4	371.0	240.8	270.8	292.7	375.6	478.1	486.2	490.8	519.6
62.5°	399.8	222.4	336.4	217.7	247.7	252.4	343.3	436.6	447.0	450.5	467.8
65°	284.5	186.6	285.8	198.2	223.5	224.6	308.8	394.1	403.2	409.0	421.7
67.5°	192.4	152.1	217.7	179.7	205.1	206.2	275.4	344.5	357.2	361.8	369.8
70°	133.7	101.4	161.3	160.2	184.3	186.6	239.6	299.5	311.1	314.5	319.2
72.5°	97.9	81.8	133.7	144.1	162.5	164.7	202.7	248.9	260.4	263.9	266.1
75°	74.9	86.4	108.3	125.6	138.2	139.4	165.9	202.7	210.9	213.1	214.3
77.5°	59.9	80.7	79.5	101.4	112.9	110.6	130.2	156.7	163.6	163.6	163.6
80°	44.9	63.4	59.9	72.6	82.9	80.7	93.3	111.8	114.1	116.3	115.2
82.5°	33.4	40.3	40.3	46.0	55.3	53.0	62.2	72.6	72.6	72.6	74.9
85°	20.8	23.0	18.4	24.2	31.1	30.0	34.5	39.2	40.3	40.3	38.0
87.5°	12.6	10.4	5.8	9.2	13.9	13.9	16.1	17.3	16.1	16.1	16.1
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.3	13.7
92.5°	47.5	29.2	10.8	29.2	47.5	52.1	73.3	101.6	115.7	101.4	72.8
95°	93.3	59.6	26.0	59.6	93.3	101.7	180.5	285.6	338.2	301.7	228.9
97.5°	104.2	74.6	44.9	74.6	104.2	111.6	243.1	418.4	506.0	483.0	437.1
100°	113.3	86.3	59.5	86.3	113.3	120.0	265.9	460.4	557.7	559.3	562.7
102.5°	122.1	97.1	71.9	97.1	122.1	128.4	276.3	473.7	572.3	601.6	660.2
105°	135.5	114.2	93.0	114.2	135.5	140.8	284.1	475.2	570.7	636.4	767.8
107.5°	154.3	134.5	114.6	134.5	154.3	159.2	285.6	454.0	538.2	629.9	813.2
110°	165.1	147.1	129.2	147.1	165.1	169.5	283.4	435.2	511.2	613.7	818.6



TEST NUMBER: P934832

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	177.6	160.6	143.5	160.6	177.6	181.9	283.5	418.9	486.6	591.5	801.2
115°	196.6	180.9	165.2	180.9	196.6	200.6	286.1	400.1	457.1	558.2	760.2
117.5°	215.1	200.8	186.5	200.8	215.1	218.7	291.4	388.3	436.8	528.0	710.4
120°	225.9	212.4	199.0	212.4	225.9	229.3	295.7	384.4	428.7	512.1	678.7
122.5°	238.2	224.7	211.1	224.7	238.2	241.6	301.9	382.3	422.5	497.5	647.6
125°	254.5	242.2	229.8	242.2	254.5	257.6	310.4	380.6	415.8	479.5	607.0
127.5°	269.9	257.4	245.0	257.4	269.9	273.0	318.7	379.7	410.1	464.9	574.3
130°	279.9	266.5	253.1	266.5	279.9	283.3	324.8	380.2	407.9	456.7	554.1
132.5°	288.3	274.9	261.4	274.9	288.3	291.7	329.8	380.6	406.0	449.6	536.9
135°	298.3	286.0	273.8	286.0	298.3	301.4	335.2	380.3	402.8	439.3	512.4
137.5°	310.8	298.7	286.6	298.7	310.8	313.8	343.3	382.6	402.3	433.1	494.9
140°	319.4	308.3	297.1	308.3	319.4	322.2	348.3	383.0	400.4	427.0	480.3
142.5°	325.8	315.5	305.2	315.5	325.8	328.4	352.4	384.4	400.4	423.8	470.6
145°	335.6	326.7	317.6	326.7	335.6	337.9	357.8	384.4	397.6	416.8	455.1
147.5°	347.6	338.8	330.1	338.8	347.6	349.8	365.7	387.0	397.6	412.7	442.9
150°	354.0	346.1	338.2	346.1	354.0	356.1	369.9	388.4	397.6	410.4	435.8
152.5°	358.6	352.6	346.5	352.6	358.6	360.1	372.6	389.3	397.6	408.5	430.3
155°	367.8	363.5	359.0	363.5	367.8	369.0	378.5	391.3	397.6	406.3	423.5
157.5°	376.9	372.5	368.2	372.5	376.9	377.9	384.5	393.3	397.6	404.4	417.8
160°	381.1	377.8	374.4	377.8	381.1	382.0	387.2	394.2	397.6	403.4	415.0
162.5°	385.7	383.2	380.6	383.2	385.7	386.3	390.1	395.1	397.6	402.5	412.2
165°	391.9	389.6	387.4	389.6	391.9	392.5	394.2	396.5	397.6	401.1	408.1
167.5°	395.7	394.6	393.5	394.6	395.7	396.0	397.5	399.4	400.4	402.6	407.2
170°	399.8	398.7	397.6	398.7	399.8	400.1	400.2	400.3	400.4	402.6	407.2
172.5°	400.3	400.1	399.8	400.1	400.3	400.4	400.4	400.4	400.4	402.2	405.8
175°	402.8	402.8	402.8	402.8	402.8	402.8	402.0	400.9	400.4	401.5	403.8
177.5°	402.8	402.8	402.8	402.8	402.8	402.8	402.2	401.3	400.9	401.7	403.6
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934832

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1175.2	1171.8	1176.4	1163.6	1176.4	1171.8	1175.2	1183.3	1176.4	1181.0	1185.6
5°	1031.2	1025.4	1007.0	992.0	1007.0	1025.4	1031.2	1055.4	1066.9	1087.6	1115.3
7.5°	921.7	917.1	912.5	903.3	912.5	917.1	921.7	928.6	940.1	958.6	979.4
10°	897.5	898.7	905.6	904.5	905.6	898.7	897.5	895.2	891.7	895.2	907.9
12.5°	959.8	970.1	1008.2	1005.8	1008.2	970.1	959.8	913.6	882.6	876.8	879.1
15°	1031.2	1034.7	1042.7	1043.8	1042.7	1034.7	1031.2	1012.8	919.4	879.1	866.5
17.5°	1038.1	1039.3	1045.0	1045.0	1045.0	1039.3	1038.1	1030.0	998.9	944.8	873.3
20°	1032.3	1034.7	1046.2	1048.4	1046.2	1034.7	1032.3	1021.9	1004.7	985.1	931.0
22.5°	1030.0	1034.7	1043.8	1042.7	1043.8	1034.7	1030.0	1013.9	998.9	985.1	963.2
25°	1018.5	1018.5	1019.7	1020.8	1019.7	1018.5	1018.5	1005.8	975.9	972.4	959.8
27.5°	994.3	996.6	1003.5	1002.4	1003.5	996.6	994.3	989.7	957.4	954.0	944.8
30°	972.4	970.1	964.4	959.8	964.4	970.1	972.4	965.5	933.3	924.0	926.4
32.5°	935.5	929.8	924.0	920.6	924.0	929.8	935.5	933.3	909.1	896.4	898.7
35°	891.7	893.0	891.7	888.3	891.7	893.0	891.7	894.1	879.1	867.6	866.5
37.5°	860.7	863.0	861.8	857.2	861.8	863.0	860.7	858.3	837.6	834.2	836.5
40°	828.4	829.6	828.4	824.9	828.4	829.6	828.4	823.8	795.0	796.2	804.2
42.5°	797.3	796.2	792.7	790.4	792.7	796.2	797.3	790.4	753.5	750.0	765.0
45°	761.5	762.8	755.8	752.4	755.8	762.8	761.5	757.0	719.0	709.7	720.1
47.5°	725.9	725.9	720.1	716.6	720.1	725.9	725.9	720.1	679.8	670.6	676.3
50°	687.9	686.7	678.6	677.5	678.6	686.7	687.9	684.4	641.7	633.7	633.7
52.5°	644.1	644.1	645.2	647.5	645.2	644.1	644.1	645.2	607.2	599.1	596.8
55°	606.1	607.2	615.2	617.6	615.2	607.2	606.1	606.1	571.4	563.4	558.8
57.5°	566.8	566.8	572.7	572.7	572.7	566.8	566.8	564.6	531.2	524.3	521.9
60°	521.9	524.3	528.8	527.7	528.8	524.3	521.9	519.6	490.8	486.2	478.1
62.5°	474.6	477.0	478.1	475.9	478.1	477.0	474.6	467.8	450.5	447.0	436.6
65°	425.1	427.5	428.6	426.3	428.6	427.5	425.1	421.7	409.0	403.2	394.1
67.5°	374.5	373.3	372.2	376.7	372.2	373.3	374.5	369.8	361.8	357.2	344.5
70°	322.6	322.6	321.4	323.8	321.4	322.6	322.6	319.2	314.5	311.1	299.5
72.5°	267.3	266.1	270.8	267.3	270.8	266.1	267.3	266.1	263.9	260.4	248.9
75°	213.1	215.5	213.1	216.6	213.1	215.5	213.1	214.3	213.1	210.9	202.7
77.5°	162.5	164.7	162.5	162.5	162.5	164.7	162.5	163.6	163.6	163.6	156.7
80°	115.2	114.1	114.1	112.9	114.1	114.1	115.2	115.2	116.3	114.1	111.8
82.5°	73.8	72.6	72.6	74.9	72.6	72.6	73.8	74.9	72.6	72.6	72.6
85°	40.3	41.5	39.2	39.2	39.2	41.5	40.3	38.0	40.3	40.3	39.2
87.5°	15.0	13.9	13.9	13.9	13.9	13.9	15.0	16.1	16.1	16.1	17.3
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.7	18.3	20.6	17.7
92.5°	51.4	49.4	41.2	33.0	41.2	49.4	51.4	72.8	101.4	115.7	101.6
95°	174.3	168.1	143.4	118.7	143.4	168.1	174.3	228.9	301.7	338.2	285.6
97.5°	402.5	390.8	343.7	296.6	343.7	390.8	402.5	437.1	483.0	506.0	418.4
100°	565.3	551.2	495.1	439.0	495.1	551.2	565.3	562.7	559.3	557.7	460.4
102.5°	704.2	692.1	644.1	596.0	644.1	692.1	704.2	660.2	601.6	572.3	473.7
105°	866.4	859.9	834.1	808.3	834.1	859.9	866.4	767.8	636.4	570.7	475.2
107.5°	950.7	952.3	958.5	964.8	958.5	952.3	950.7	813.2	629.9	538.2	454.0
110°	972.3	979.0	1006.0	1032.9	1006.0	979.0	972.3	818.6	613.7	511.2	435.2



TEST NUMBER: P934832

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	958.5	968.9	1010.3	1051.6	1010.3	968.9	958.5	801.2	591.5	486.6	418.9
115°	911.8	926.1	983.5	1040.8	983.5	926.1	911.8	760.2	558.2	457.1	400.1
117.5°	847.2	863.1	926.6	990.2	926.6	863.1	847.2	710.4	528.0	436.8	388.3
120°	803.7	819.1	880.8	942.6	880.8	819.1	803.7	678.7	512.1	428.7	384.4
122.5°	760.2	775.4	836.3	897.2	836.3	775.4	760.2	647.6	497.5	422.5	382.3
125°	702.6	716.6	772.7	828.8	772.7	716.6	702.6	607.0	479.5	415.8	380.6
127.5°	656.4	668.2	715.5	762.9	715.5	668.2	656.4	574.3	464.9	410.1	379.7
130°	627.2	638.1	681.8	725.5	681.8	638.1	627.2	554.1	456.7	407.9	380.2
132.5°	602.3	612.1	651.2	690.4	651.2	612.1	602.3	536.9	449.6	406.0	380.6
135°	567.2	575.6	609.4	643.1	609.4	575.6	567.2	512.4	439.3	402.8	380.3
137.5°	541.2	548.1	575.7	603.4	575.7	548.1	541.2	494.9	433.1	402.3	382.6
140°	520.3	526.8	552.7	578.5	552.7	526.8	520.3	480.3	427.0	400.4	383.0
142.5°	505.8	511.4	533.5	555.7	533.5	511.4	505.8	470.6	423.8	400.4	384.4
145°	483.9	488.1	504.9	521.7	504.9	488.1	483.9	455.1	416.8	397.6	384.4
147.5°	465.5	469.0	482.9	496.9	482.9	469.0	465.5	442.9	412.7	397.6	387.0
150°	454.9	457.7	469.1	480.4	469.1	457.7	454.9	435.8	410.4	397.6	388.4
152.5°	446.6	448.7	457.2	465.8	457.2	448.7	446.6	430.3	408.5	397.6	389.3
155°	436.5	437.9	443.6	449.3	443.6	437.9	436.5	423.5	406.3	397.6	391.3
157.5°	427.9	428.9	432.9	436.8	432.9	428.9	427.9	417.8	404.4	397.6	393.3
160°	423.6	424.2	426.4	428.7	426.4	424.2	423.6	415.0	403.4	397.6	394.2
162.5°	419.5	420.1	422.2	424.4	422.2	420.1	419.5	412.2	402.5	397.6	395.1
165°	413.3	414.0	416.2	418.5	416.2	414.0	413.3	408.1	401.1	397.6	396.5
167.5°	410.6	410.9	411.9	412.8	411.9	410.9	410.6	407.2	402.6	400.4	399.4
170°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	407.2	402.6	400.4	400.3
172.5°	408.5	408.3	407.4	406.5	407.4	408.3	408.5	405.8	402.2	400.4	400.4
175°	405.5	405.5	405.5	405.5	405.5	405.5	405.5	403.8	401.5	400.4	400.9
177.5°	405.0	404.7	403.8	402.8	403.8	404.7	405.0	403.6	401.7	400.9	401.3
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934832

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1202.9	1208.6	1212.0	1216.7	1228.2
5°	1156.8	1178.6	1185.6	1202.9	1223.6
7.5°	1055.4	1122.2	1140.6	1182.1	1214.4
10°	957.4	1024.3	1056.6	1154.5	1202.9
12.5°	907.9	947.1	969.0	1106.1	1186.8
15°	876.8	904.5	920.6	1041.6	1168.3
17.5°	852.6	872.2	883.7	978.2	1143.0
20°	837.6	846.8	857.2	932.1	1114.1
22.5°	827.2	821.5	829.6	899.9	1075.0
25°	820.3	798.4	807.7	874.5	1028.9
27.5°	826.1	777.7	781.2	851.5	980.5
30°	827.2	752.4	753.5	827.2	926.4
32.5°	819.2	725.9	727.0	797.3	865.2
35°	799.6	694.7	693.6	762.8	782.3
37.5°	773.1	661.4	661.4	724.7	691.3
40°	740.9	628.0	631.4	675.1	610.7
42.5°	701.6	592.2	596.8	609.5	550.8
45°	659.0	557.7	561.1	515.0	504.6
47.5°	611.8	521.9	523.0	427.5	489.6
50°	555.3	485.0	480.5	366.4	488.5
52.5°	505.8	444.7	430.9	331.8	443.6
55°	457.4	402.1	372.2	305.3	411.3
57.5°	414.7	346.8	318.0	274.3	404.4
60°	375.6	292.7	270.8	240.8	371.0
62.5°	343.3	252.4	247.7	217.7	336.4
65°	308.8	224.6	223.5	198.2	285.8
67.5°	275.4	206.2	205.1	179.7	217.7
70°	239.6	186.6	184.3	160.2	161.3
72.5°	202.7	164.7	162.5	144.1	133.7
75°	165.9	139.4	138.2	125.6	108.3
77.5°	130.2	110.6	112.9	101.4	79.5
80°	93.3	80.7	82.9	72.6	59.9
82.5°	62.2	53.0	55.3	46.0	40.3
85°	34.5	30.0	31.1	24.2	18.4
87.5°	16.1	13.9	13.9	9.2	5.8
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.3	52.1	47.5	29.2	10.8
95°	180.5	101.7	93.3	59.6	26.0
97.5°	243.1	111.6	104.2	74.6	44.9
100°	265.9	120.0	113.3	86.3	59.5
102.5°	276.3	128.4	122.1	97.1	71.9
105°	284.1	140.8	135.5	114.2	93.0
107.5°	285.6	159.2	154.3	134.5	114.6
110°	283.4	169.5	165.1	147.1	129.2



TEST NUMBER: P934832

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	283.5	181.9	177.6	160.6	143.5
115°	286.1	200.6	196.6	180.9	165.2
117.5°	291.4	218.7	215.1	200.8	186.5
120°	295.7	229.3	225.9	212.4	199.0
122.5°	301.9	241.6	238.2	224.7	211.1
125°	310.4	257.6	254.5	242.2	229.8
127.5°	318.7	273.0	269.9	257.4	245.0
130°	324.8	283.3	279.9	266.5	253.1
132.5°	329.8	291.7	288.3	274.9	261.4
135°	335.2	301.4	298.3	286.0	273.8
137.5°	343.3	313.8	310.8	298.7	286.6
140°	348.3	322.2	319.4	308.3	297.1
142.5°	352.4	328.4	325.8	315.5	305.2
145°	357.8	337.9	335.6	326.7	317.6
147.5°	365.7	349.8	347.6	338.8	330.1
150°	369.9	356.1	354.0	346.1	338.2
152.5°	372.6	360.1	358.6	352.6	346.5
155°	378.5	369.0	367.8	363.5	359.0
157.5°	384.5	377.9	376.9	372.5	368.2
160°	387.2	382.0	381.1	377.8	374.4
162.5°	390.1	386.3	385.7	383.2	380.6
165°	394.2	392.5	391.9	389.6	387.4
167.5°	397.5	396.0	395.7	394.6	393.5
170°	400.2	400.1	399.8	398.7	397.6
172.5°	400.4	400.4	400.3	400.1	399.8
175°	402.0	402.8	402.8	402.8	402.8
177.5°	402.2	402.8	402.8	402.8	402.8
180°	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934832
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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	13.65	14.55	14.56	15.49	16.69	16.44	17.35	17.36	18.28	19.48
	3H	14.13	14.94	15.05	15.88	17.11	17.78	18.59	18.71	19.54	20.76
	4H	14.32	15.09	15.26	16.04	17.27	18.22	18.99	19.16	19.94	21.17
	6H	14.44	15.15	15.40	16.10	17.35	18.50	19.21	19.46	20.16	21.41
	8H	14.44	15.12	15.40	16.09	17.33	18.57	19.25	19.53	20.22	21.46
	12H	14.42	15.06	15.38	16.02	17.29	18.61	19.25	19.58	20.21	21.49
4H	2H	14.68	15.44	15.62	16.39	17.63	16.86	17.63	17.81	18.58	19.81
	3H	15.71	16.35	16.66	17.33	18.57	18.36	19.00	19.32	19.98	21.23
	4H	15.99	16.57	16.95	17.54	18.82	18.88	19.47	19.85	20.44	21.71
	6H	16.11	16.62	17.09	17.61	18.89	19.24	19.75	20.22	20.74	22.02
	8H	16.12	16.59	17.10	17.58	18.87	19.35	19.82	20.33	20.81	22.09
	12H	16.09	16.51	17.09	17.52	18.81	19.40	19.82	20.40	20.83	22.12
8H	4H	16.44	16.91	17.42	17.90	19.18	19.01	19.48	19.99	20.47	21.76
	6H	16.70	17.09	17.71	18.12	19.41	19.44	19.83	20.45	20.86	22.15
	8H	16.74	17.09	17.76	18.11	19.41	19.59	19.93	20.61	20.95	22.26
	12H	16.73	17.03	17.75	18.04	19.39	19.68	19.99	20.70	21.00	22.35
12H	4H	16.44	16.87	17.45	17.87	19.17	18.98	19.40	19.98	20.41	21.70
	6H	16.76	17.10	17.78	18.12	19.43	19.44	19.78	20.46	20.80	22.11
	8H	16.83	17.13	17.85	18.14	19.49	19.60	19.90	20.62	20.91	22.26