

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: P935936

Luminaire Tested: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935936
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

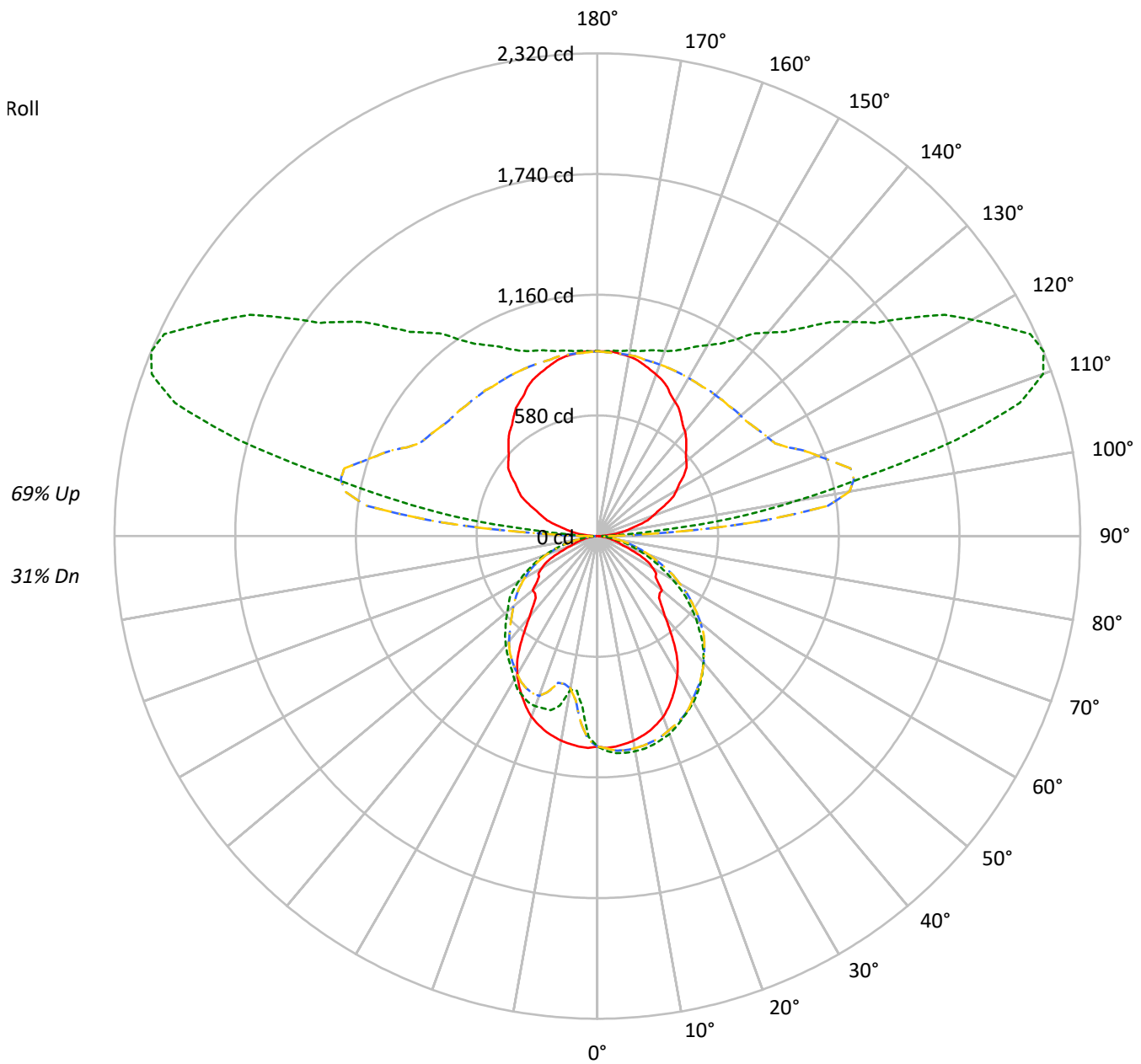
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8384.8 lumens
Efficiency: N/A
Efficacy: 131.8 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: Semi-Indirect

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



— 0°-180° - - 45°-225° ··· 90°-270° - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9379	9379	9379	9379
5°	9439	9469	9439	7445
10°	9366	9327	9366	6668
15°	9254	9126	9254	7619
20°	9049	8885	9049	7635
25°	8643	8536	8643	7473
30°	8121	8246	8121	7118
35°	7230	7879	7230	6728
40°	6014	7448	6014	6433
45°	5363	6943	5363	6094
50°	5684	6340	5684	5753
55°	5334	5691	5334	5556
60°	5477	4833	5477	5089
65°	4941	3995	4941	4467
70°	3399	3183	3399	3743
75°	2948	2353	2948	2819
80°	2326	1557	2326	1694
85°	1267	823	1267	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.1
10°-20°	259.1	3.1
20°-30°	400.5	4.8
30°-40°	478.1	5.7
40°-50°	480.9	5.7
50°-60°	418.4	5.0
60°-70°	296.7	3.5
70°-80°	156.9	1.9
80°-90°	42.5	0.5
90°-100°	433.2	5.2
100°-110°	1138.8	13.6
110°-120°	1180.8	14.1
120°-130°	947.2	11.3
130°-140°	743.2	8.9
140°-150°	570.4	6.8
150°-160°	410.8	4.9
160°-170°	251.3	3.0
170°-180°	84.9	1.0
0°-30°	750.8	9.0
0°-40°	1228.9	14.7
0°-60°	2128.2	25.4
0°-90°	2624.3	31.3
90°-120°	2752.8	32.8
90°-150°	5013.5	59.8
90°-180°	5761.0	68.7
0°-180°	8384.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	1016	1047	1016	823	1016	96
15°	970	1038	970	866	970	273
25°	854	968	854	847	854	392
35°	649	864	649	737	649	402
45°	419	712	419	624	419	336
55°	342	525	342	513	342	314
65°	237	316	237	354	237	227
75°	90	150	90	180	90	95
85°	15	38	15	32	15	21
90°	6	23	6	23	6	6
95°	57	262	57	262	57	64
105°	205	1783	205	1783	205	217
115°	364	2296	364	2296	364	360
125°	507	1828	507	1828	507	450
135°	604	1419	604	1419	604	467
145°	701	1151	701	1151	701	439
155°	792	991	792	991	792	364
165°	855	923	855	923	855	241
175°	889	895	889	895	889	84
180°	889	889	889	889	889	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1019.4	1019.4	1025.2	1027.1	1027.1	1024.3	1021.4	1024.3	1032.9	1035.7	1034.8
5°	1015.6	1023.3	1033.8	1035.7	1037.7	1036.7	1034.8	1036.7	1046.3	1048.2	1049.1
7.5°	1007.9	1022.4	1035.7	1038.6	1041.5	1038.6	1037.7	1039.6	1049.1	1051.0	1051.0
10°	998.4	1018.4	1033.8	1035.7	1038.6	1035.7	1035.7	1039.6	1049.1	1051.0	1052.0
12.5°	985.0	1012.7	1027.1	1029.1	1032.9	1031.9	1031.0	1034.8	1044.4	1046.3	1046.3
15°	969.7	1002.2	1015.6	1017.5	1024.3	1022.4	1022.4	1026.2	1036.7	1039.6	1038.6
17.5°	948.6	988.8	1004.1	1007.0	1011.7	1010.8	1011.7	1015.6	1025.2	1027.1	1028.1
20°	924.7	970.6	988.8	991.7	996.4	996.4	996.4	1001.2	1010.8	1014.6	1014.6
22.5°	892.2	951.5	970.6	972.5	978.3	978.3	980.2	986.9	995.5	996.4	996.4
25°	854.0	930.5	946.7	952.5	958.2	961.1	963.9	967.8	970.6	969.7	970.6
27.5°	813.8	903.7	924.7	928.6	936.2	939.1	942.9	943.9	944.8	947.7	945.8
30°	768.9	866.4	898.0	901.8	914.2	916.1	912.3	914.2	919.0	920.9	922.8
32.5°	718.2	810.9	870.2	878.8	890.3	884.6	883.6	886.5	894.1	894.1	896.0
35°	649.4	767.9	844.4	852.1	860.7	854.0	857.8	858.8	863.5	866.4	865.5
37.5°	573.8	730.6	817.6	823.4	830.1	821.5	827.2	830.1	833.9	832.0	832.0
40°	506.9	672.3	786.1	789.9	795.6	789.0	794.7	796.6	798.5	796.6	795.6
42.5°	457.2	608.2	752.6	757.4	753.6	758.4	760.3	764.1	761.2	757.4	757.4
45°	418.9	591.0	716.3	722.0	716.3	723.9	726.8	726.8	718.2	716.3	715.3
47.5°	406.5	556.6	679.9	679.9	677.1	686.6	691.4	684.7	676.1	673.3	673.3
50°	405.5	518.4	630.2	626.4	639.8	651.3	646.5	639.8	633.1	622.6	622.6
52.5°	368.2	471.5	566.2	580.5	601.5	608.2	600.6	593.9	582.4	577.6	573.8
55°	341.5	422.7	507.8	536.5	558.5	567.1	552.8	546.1	528.9	526.0	524.1
57.5°	335.6	352.0	454.3	490.6	517.4	516.4	507.8	495.4	481.1	478.2	477.2
60°	307.9	254.3	396.9	439.9	467.7	464.8	457.2	445.7	432.3	430.4	428.5
62.5°	279.2	184.5	331.8	380.7	419.9	418.9	412.2	395.0	385.4	380.7	376.8
65°	237.1	154.9	236.2	316.5	373.0	374.9	360.6	348.1	337.5	331.8	330.8
67.5°	180.7	126.2	159.7	263.9	328.0	326.1	307.9	302.2	288.8	285.9	280.2
70°	133.9	84.1	110.9	214.2	284.0	279.2	264.9	258.2	245.7	239.0	235.2
72.5°	110.9	67.9	81.3	166.4	239.0	233.3	220.9	213.2	202.7	197.0	193.2
75°	89.9	71.7	62.2	123.3	194.1	190.3	178.8	171.2	162.6	154.9	155.9
77.5°	66.0	66.9	49.7	90.8	153.9	148.2	141.5	132.0	128.1	120.5	120.5
80°	49.7	52.6	37.3	62.2	110.9	110.9	105.2	98.5	91.8	88.0	88.0
82.5°	33.5	33.5	27.7	39.2	75.5	72.7	68.8	66.9	63.1	61.2	61.2
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.2	38.2	39.2
87.5°	4.8	8.6	10.5	13.4	21.0	22.0	22.9	22.9	22.9	23.9	23.9
90°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.3	30.2	22.7	22.7
92.5°	23.8	64.4	105.0	115.1	161.8	224.0	255.2	223.7	160.6	113.3	108.8
95°	57.3	131.5	205.7	224.2	398.2	630.1	746.1	665.8	505.2	384.7	371.0
97.5°	99.0	164.5	230.0	246.3	536.3	923.1	1116.5	1065.7	964.1	888.0	862.0
100°	131.2	190.6	249.9	264.8	586.6	1015.8	1230.3	1234.1	1241.5	1247.1	1216.1
102.5°	158.6	214.1	269.5	283.3	609.8	1044.9	1262.6	1327.2	1456.6	1553.6	1527.1
105°	205.2	252.1	299.0	310.8	626.8	1048.2	1258.9	1403.9	1693.9	1911.4	1897.2
107.5°	252.9	296.6	340.4	351.3	630.0	1001.6	1187.4	1389.6	1794.1	2097.5	2100.9
110°	285.0	324.5	364.1	374.0	625.3	960.2	1127.7	1353.9	1806.1	2145.2	2160.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.7	354.4	392.0	401.4	625.4	924.2	1073.5	1304.9	1767.7	2114.8	2137.6
115°	364.4	399.1	433.8	442.5	631.2	882.8	1008.5	1231.4	1677.3	2011.6	2043.3
117.5°	411.5	443.1	474.7	482.5	642.9	856.8	963.7	1164.9	1567.3	1869.1	1904.2
120°	438.9	468.6	498.3	505.7	652.4	848.0	945.9	1129.6	1497.3	1773.1	1807.1
122.5°	465.8	495.7	525.7	533.2	666.2	843.6	932.2	1097.7	1428.7	1677.1	1710.6
125°	507.0	534.2	561.6	568.4	684.6	839.7	917.3	1057.8	1339.1	1550.0	1581.0
127.5°	540.3	567.9	595.4	602.3	703.1	837.5	904.7	1025.5	1267.0	1448.1	1474.2
130°	558.2	587.9	617.5	625.0	716.7	838.9	900.0	1007.4	1222.4	1383.6	1407.7
132.5°	576.7	606.4	636.1	643.5	727.6	839.7	895.8	992.0	1184.4	1328.7	1350.3
135°	604.1	631.2	658.1	664.9	739.5	838.9	888.6	969.2	1130.3	1251.2	1269.8
137.5°	632.1	658.9	685.7	692.4	757.4	844.1	887.4	955.5	1091.8	1194.0	1209.2
140°	655.5	680.1	704.8	710.9	768.4	845.0	883.2	942.0	1059.7	1148.0	1162.3
142.5°	673.4	696.1	718.9	724.6	777.5	848.0	883.2	935.0	1038.3	1115.9	1128.1
145°	700.8	720.7	740.5	745.4	789.4	848.0	877.3	919.6	1004.1	1067.5	1076.8
147.5°	728.1	747.6	766.9	771.7	806.9	853.9	877.3	910.6	977.0	1027.0	1034.6
150°	746.1	763.6	781.0	785.4	816.0	856.8	877.3	905.4	961.5	1003.7	1009.9
152.5°	764.6	777.9	791.1	794.4	822.0	858.9	877.3	901.3	949.3	985.3	989.9
155°	792.0	801.9	811.6	814.1	835.1	863.3	877.3	896.4	934.6	963.2	966.3
157.5°	812.3	821.8	831.3	833.7	848.2	867.6	877.3	892.1	921.8	944.0	946.2
160°	826.0	833.4	840.9	842.7	854.3	869.7	877.3	890.0	915.5	934.5	935.7
162.5°	839.7	845.3	850.8	852.3	860.6	871.8	877.3	888.0	909.5	925.6	926.7
165°	854.6	859.6	864.7	865.9	869.8	874.8	877.3	885.0	900.4	911.8	913.1
167.5°	868.3	870.7	873.1	873.7	876.8	881.1	883.2	888.3	898.3	905.9	906.5
170°	877.3	879.7	882.1	882.7	882.9	883.1	883.2	888.3	898.3	905.9	905.9
172.5°	882.1	882.6	883.1	883.2	883.2	883.2	883.2	887.3	895.2	901.1	900.6
175°	888.6	888.6	888.6	888.6	886.8	884.4	883.2	885.7	890.8	894.6	894.6
177.5°	888.6	888.6	888.6	888.6	887.3	885.4	884.5	886.5	890.4	893.4	892.8
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1036.7	1033.8	1036.7	1034.8	1035.7	1032.9	1024.3	1021.4	1024.3	1027.1	1027.1
5°	1049.1	1047.2	1049.1	1049.1	1048.2	1046.3	1036.7	1034.8	1036.7	1037.7	1035.7
7.5°	1053.0	1050.1	1053.0	1051.0	1051.0	1049.1	1039.6	1037.7	1038.6	1041.5	1038.6
10°	1053.0	1050.1	1053.0	1052.0	1051.0	1049.1	1039.6	1035.7	1035.7	1038.6	1035.7
12.5°	1048.2	1046.3	1048.2	1046.3	1046.3	1044.4	1034.8	1031.0	1031.9	1032.9	1029.1
15°	1040.5	1037.7	1040.5	1038.6	1039.6	1036.7	1026.2	1022.4	1022.4	1024.3	1017.5
17.5°	1029.1	1025.2	1029.1	1028.1	1027.1	1025.2	1015.6	1011.7	1010.8	1011.7	1007.0
20°	1015.6	1012.7	1015.6	1014.6	1014.6	1010.8	1001.2	996.4	996.4	996.4	991.7
22.5°	994.5	991.7	994.5	996.4	996.4	995.5	986.9	980.2	978.3	978.3	972.5
25°	970.6	967.8	970.6	970.6	969.7	970.6	967.8	963.9	961.1	958.2	952.5
27.5°	947.7	945.8	947.7	945.8	947.7	944.8	943.9	942.9	939.1	936.2	928.6
30°	924.7	922.8	924.7	922.8	920.9	919.0	914.2	912.3	916.1	914.2	901.8
32.5°	896.0	894.1	896.0	896.0	894.1	894.1	886.5	883.6	884.6	890.3	878.8
35°	866.4	863.5	866.4	865.5	866.4	863.5	858.8	857.8	854.0	860.7	852.1
37.5°	832.0	829.1	832.0	832.0	832.0	833.9	830.1	827.2	821.5	830.1	823.4
40°	796.6	792.8	796.6	795.6	796.6	798.5	796.6	794.7	789.0	795.6	789.9
42.5°	756.4	755.5	756.4	757.4	757.4	761.2	764.1	760.3	758.4	753.6	757.4
45°	713.4	711.5	713.4	715.3	716.3	718.2	726.8	726.8	723.9	716.3	722.0
47.5°	667.5	662.7	667.5	673.3	673.3	676.1	684.7	691.4	686.6	677.1	679.9
50°	618.8	619.7	618.8	622.6	622.6	633.1	639.8	646.5	651.3	639.8	626.4
52.5°	570.9	570.0	570.9	573.8	577.6	582.4	593.9	600.6	608.2	601.5	580.5
55°	523.1	525.0	523.1	524.1	526.0	528.9	546.1	552.8	567.1	558.5	536.5
57.5°	475.3	472.5	475.3	477.2	478.2	481.1	495.4	507.8	516.4	517.4	490.6
60°	419.9	416.0	419.9	428.5	430.4	432.3	445.7	457.2	464.8	467.7	439.9
62.5°	371.1	364.4	371.1	376.8	380.7	385.4	395.0	412.2	418.9	419.9	380.7
65°	319.4	316.5	319.4	330.8	331.8	337.5	348.1	360.6	374.9	373.0	316.5
67.5°	272.5	272.5	272.5	280.2	285.9	288.8	302.2	307.9	326.1	328.0	263.9
70°	229.5	228.5	229.5	235.2	239.0	245.7	258.2	264.9	279.2	284.0	214.2
72.5°	188.4	187.4	188.4	193.2	197.0	202.7	213.2	220.9	233.3	239.0	166.4
75°	152.0	150.1	152.0	155.9	154.9	162.6	171.2	178.8	190.3	194.1	123.3
77.5°	116.7	116.7	116.7	120.5	120.5	128.1	132.0	141.5	148.2	153.9	90.8
80°	87.0	86.1	87.0	88.0	88.0	91.8	98.5	105.2	110.9	110.9	62.2
82.5°	61.2	59.3	61.2	61.2	61.2	63.1	66.9	68.8	72.7	75.5	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.2	41.1	43.0	43.0	41.1	23.9
87.5°	24.9	23.9	24.9	23.9	23.9	22.9	22.9	22.9	22.0	21.0	13.4
90°	22.7	22.7	22.7	22.7	22.7	30.2	40.3	45.3	39.0	26.3	16.7
92.5°	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.2	224.0	161.8	115.1
95°	316.4	261.8	316.4	371.0	384.7	505.2	665.8	746.1	630.1	398.2	224.2
97.5°	758.2	654.2	758.2	862.0	888.0	964.1	1065.7	1116.5	923.1	536.3	246.3
100°	1092.4	968.5	1092.4	1216.1	1247.1	1241.5	1234.1	1230.3	1015.8	586.6	264.8
102.5°	1421.1	1315.1	1421.1	1527.1	1553.6	1456.6	1327.2	1262.6	1044.9	609.8	283.3
105°	1840.2	1783.2	1840.2	1897.2	1911.4	1693.9	1403.9	1258.9	1048.2	626.8	310.8
107.5°	2114.7	2128.5	2114.7	2100.9	2097.5	1794.1	1389.6	1187.4	1001.6	630.0	351.3
110°	2219.4	2278.8	2219.4	2160.0	2145.2	1806.1	1353.9	1127.7	960.2	625.3	374.0



TEST NUMBER: P935936

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2228.8	2319.9	2228.8	2137.6	2114.8	1767.7	1304.9	1073.5	924.2	625.4	401.4
115°	2169.7	2296.1	2169.7	2043.3	2011.6	1677.3	1231.4	1008.5	882.8	631.2	442.5
117.5°	2044.3	2184.5	2044.3	1904.2	1869.1	1567.3	1164.9	963.7	856.8	642.9	482.5
120°	1943.4	2079.6	1943.4	1807.1	1773.1	1497.3	1129.6	945.9	848.0	652.4	505.7
122.5°	1845.1	1979.4	1845.1	1710.6	1677.1	1428.7	1097.7	932.2	843.6	666.2	533.2
125°	1704.7	1828.5	1704.7	1581.0	1550.0	1339.1	1057.8	917.3	839.7	684.6	568.4
127.5°	1578.6	1683.0	1578.6	1474.2	1448.1	1267.0	1025.5	904.7	837.5	703.1	602.3
130°	1504.2	1600.7	1504.2	1407.7	1383.6	1222.4	1007.4	900.0	838.9	716.7	625.0
132.5°	1436.7	1523.1	1436.7	1350.3	1328.7	1184.4	992.0	895.8	839.7	727.6	643.5
135°	1344.3	1418.8	1344.3	1269.8	1251.2	1130.3	969.2	888.6	838.9	739.5	664.9
137.5°	1270.2	1331.1	1270.2	1209.2	1194.0	1091.8	955.5	887.4	844.1	757.4	692.4
140°	1219.2	1276.2	1219.2	1162.3	1148.0	1059.7	942.0	883.2	845.0	768.4	710.9
142.5°	1177.2	1226.1	1177.2	1128.1	1115.9	1038.3	935.0	883.2	848.0	777.5	724.6
145°	1114.0	1151.1	1114.0	1076.8	1067.5	1004.1	919.6	877.3	848.0	789.4	745.4
147.5°	1065.4	1096.2	1065.4	1034.6	1027.0	977.0	910.6	877.3	853.9	806.9	771.7
150°	1034.9	1059.7	1034.9	1009.9	1003.7	961.5	905.4	877.3	856.8	816.0	785.4
152.5°	1008.8	1027.5	1008.8	989.9	985.3	949.3	901.3	877.3	858.9	822.0	794.4
155°	978.8	991.2	978.8	966.3	963.2	934.6	896.4	877.3	863.3	835.1	814.1
157.5°	954.9	963.7	954.9	946.2	944.0	921.8	892.1	877.3	867.6	848.2	833.7
160°	940.8	945.9	940.8	935.7	934.5	915.5	890.0	877.3	869.7	854.3	842.7
162.5°	931.5	936.3	931.5	926.7	925.6	909.5	888.0	877.3	871.8	860.6	852.3
165°	918.1	923.2	918.1	913.1	911.8	900.4	885.0	877.3	874.8	869.8	865.9
167.5°	908.6	910.7	908.6	906.5	905.9	898.3	888.3	883.2	881.1	876.8	873.7
170°	905.9	905.9	905.9	905.9	905.9	898.3	888.3	883.2	883.1	882.9	882.7
172.5°	898.8	897.0	898.8	900.6	901.1	895.2	887.3	883.2	883.2	883.2	883.2
175°	894.6	894.6	894.6	894.6	894.6	890.8	885.7	883.2	884.4	886.8	888.6
177.5°	890.7	888.6	890.7	892.8	893.4	890.4	886.5	884.5	885.4	887.3	888.6
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



TEST NUMBER: P935936

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1025.2	1019.4	1019.4	1009.8	1006.0	1003.1	998.4	984.0	980.2	976.4	982.1
5°	1033.8	1023.3	1015.6	998.4	984.0	978.3	960.1	925.7	902.7	885.5	876.0
7.5°	1035.7	1022.4	1007.9	981.1	946.7	931.4	876.0	812.9	795.6	780.3	770.8
10°	1033.8	1018.4	998.4	958.2	876.9	850.2	794.7	753.6	743.1	740.2	743.1
12.5°	1027.1	1012.7	985.0	918.0	804.3	786.1	753.6	729.7	727.8	732.5	758.4
15°	1015.6	1002.2	969.7	864.5	764.1	750.7	727.8	719.2	729.7	763.1	840.6
17.5°	1004.1	988.8	948.6	811.9	733.5	723.9	707.7	724.9	784.2	829.1	854.9
20°	988.8	970.6	924.7	773.7	711.5	702.9	695.2	772.7	817.6	833.9	848.2
22.5°	970.6	951.5	892.2	746.9	688.6	681.9	686.6	799.5	817.6	829.1	841.5
25°	946.7	930.5	854.0	725.8	670.4	662.7	680.9	796.6	807.1	810.0	834.9
27.5°	924.7	903.7	813.8	706.7	648.4	645.5	685.7	784.2	791.8	794.7	821.5
30°	898.0	866.4	768.9	686.6	625.4	624.5	686.6	768.9	767.0	774.6	801.4
32.5°	870.2	810.9	718.2	661.8	603.5	602.5	679.9	745.9	744.0	754.5	774.6
35°	844.4	767.9	649.4	633.1	575.7	576.7	663.7	719.2	720.1	729.7	742.1
37.5°	817.6	730.6	573.8	601.5	549.0	549.0	641.7	694.3	692.4	695.2	712.5
40°	786.1	672.3	506.9	560.4	524.1	521.2	614.9	667.5	660.8	659.9	683.8
42.5°	752.6	608.2	457.2	505.9	495.4	491.6	582.4	635.0	622.6	625.4	656.0
45°	716.3	591.0	418.9	427.5	465.8	462.9	547.0	597.7	589.1	596.8	628.3
47.5°	679.9	556.6	406.5	354.8	434.2	433.3	507.8	561.4	556.6	564.2	597.7
50°	630.2	518.4	405.5	304.1	398.8	402.7	461.0	526.0	526.0	532.7	568.1
52.5°	566.2	471.5	368.2	275.4	357.7	369.2	419.9	495.4	497.3	504.0	535.6
55°	507.8	422.7	341.5	253.4	308.9	333.7	379.7	463.8	467.7	474.4	503.1
57.5°	454.3	352.0	335.6	227.6	263.9	287.8	344.3	433.3	435.2	440.9	468.6
60°	396.9	254.3	307.9	199.8	224.7	242.9	311.7	396.9	403.6	407.4	431.3
62.5°	331.8	184.5	279.2	180.7	205.6	209.4	284.9	362.5	371.1	374.0	388.3
65°	236.2	154.9	237.1	164.5	185.5	186.5	256.3	327.0	334.7	339.4	350.1
67.5°	159.7	126.2	180.7	149.2	170.2	171.2	228.5	285.9	296.4	300.2	306.9
70°	110.9	84.1	133.9	132.9	153.0	154.9	198.9	248.6	258.2	261.0	264.9
72.5°	81.3	67.9	110.9	119.5	134.8	136.7	168.3	206.5	216.1	219.0	220.9
75°	62.2	71.7	89.9	104.2	114.7	115.7	137.7	168.3	175.0	176.9	177.9
77.5°	49.7	66.9	66.0	84.1	93.7	91.8	108.0	130.0	135.8	135.8	135.8
80°	37.3	52.6	49.7	60.2	68.8	66.9	77.5	92.8	94.7	96.6	95.6
82.5°	27.7	33.5	33.5	38.2	45.9	44.0	51.6	60.2	60.2	60.2	62.2
85°	17.2	19.1	15.3	20.1	25.8	24.9	28.7	32.5	33.5	33.5	31.6
87.5°	10.5	8.6	4.8	7.6	11.5	11.5	13.4	14.3	13.4	13.4	13.4
90°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.3	30.2
92.5°	105.0	64.4	23.8	64.4	105.0	115.1	161.8	224.0	255.2	223.7	160.6
95°	205.7	131.5	57.3	131.5	205.7	224.2	398.2	630.1	746.1	665.8	505.2
97.5°	230.0	164.5	99.0	164.5	230.0	246.3	536.3	923.1	1116.5	1065.7	964.1
100°	249.9	190.6	131.2	190.6	249.9	264.8	586.6	1015.8	1230.3	1234.1	1241.5
102.5°	269.5	214.1	158.6	214.1	269.5	283.3	609.8	1044.9	1262.6	1327.2	1456.6
105°	299.0	252.1	205.2	252.1	299.0	310.8	626.8	1048.2	1258.9	1403.9	1693.9
107.5°	340.4	296.6	252.9	296.6	340.4	351.3	630.0	1001.6	1187.4	1389.6	1794.1
110°	364.1	324.5	285.0	324.5	364.1	374.0	625.3	960.2	1127.7	1353.9	1806.1



TEST NUMBER: P935936

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	392.0	354.4	316.7	354.4	392.0	401.4	625.4	924.2	1073.5	1304.9	1767.7
115°	433.8	399.1	364.4	399.1	433.8	442.5	631.2	882.8	1008.5	1231.4	1677.3
117.5°	474.7	443.1	411.5	443.1	474.7	482.5	642.9	856.8	963.7	1164.9	1567.3
120°	498.3	468.6	438.9	468.6	498.3	505.7	652.4	848.0	945.9	1129.6	1497.3
122.5°	525.7	495.7	465.8	495.7	525.7	533.2	666.2	843.6	932.2	1097.7	1428.7
125°	561.6	534.2	507.0	534.2	561.6	568.4	684.6	839.7	917.3	1057.8	1339.1
127.5°	595.4	567.9	540.3	567.9	595.4	602.3	703.1	837.5	904.7	1025.5	1267.0
130°	617.5	587.9	558.2	587.9	617.5	625.0	716.7	838.9	900.0	1007.4	1222.4
132.5°	636.1	606.4	576.7	606.4	636.1	643.5	727.6	839.7	895.8	992.0	1184.4
135°	658.1	631.2	604.1	631.2	658.1	664.9	739.5	838.9	888.6	969.2	1130.3
137.5°	685.7	658.9	632.1	658.9	685.7	692.4	757.4	844.1	887.4	955.5	1091.8
140°	704.8	680.1	655.5	680.1	704.8	710.9	768.4	845.0	883.2	942.0	1059.7
142.5°	718.9	696.1	673.4	696.1	718.9	724.6	777.5	848.0	883.2	935.0	1038.3
145°	740.5	720.7	700.8	720.7	740.5	745.4	789.4	848.0	877.3	919.6	1004.1
147.5°	766.9	747.6	728.1	747.6	766.9	771.7	806.9	853.9	877.3	910.6	977.0
150°	781.0	763.6	746.1	763.6	781.0	785.4	816.0	856.8	877.3	905.4	961.5
152.5°	791.1	777.9	764.6	777.9	791.1	794.4	822.0	858.9	877.3	901.3	949.3
155°	811.6	801.9	792.0	801.9	811.6	814.1	835.1	863.3	877.3	896.4	934.6
157.5°	831.3	821.8	812.3	821.8	831.3	833.7	848.2	867.6	877.3	892.1	921.8
160°	840.9	833.4	826.0	833.4	840.9	842.7	854.3	869.7	877.3	890.0	915.5
162.5°	850.8	845.3	839.7	845.3	850.8	852.3	860.6	871.8	877.3	888.0	909.5
165°	864.7	859.6	854.6	859.6	864.7	865.9	869.8	874.8	877.3	885.0	900.4
167.5°	873.1	870.7	868.3	870.7	873.1	873.7	876.8	881.1	883.2	888.3	898.3
170°	882.1	879.7	877.3	879.7	882.1	882.7	882.9	883.1	883.2	888.3	898.3
172.5°	883.1	882.6	882.1	882.6	883.1	883.2	883.2	883.2	883.2	887.3	895.2
175°	888.6	888.6	888.6	888.6	888.6	888.6	886.8	884.4	883.2	885.7	890.8
177.5°	888.6	888.6	888.6	888.6	888.6	888.6	887.3	885.4	884.5	886.5	890.4
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



TEST NUMBER: P935936

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	975.4	972.5	976.4	965.9	976.4	972.5	975.4	982.1	976.4	980.2	984.0
5°	855.9	851.1	835.8	823.4	835.8	851.1	855.9	876.0	885.5	902.7	925.7
7.5°	765.1	761.2	757.4	749.8	757.4	761.2	765.1	770.8	780.3	795.6	812.9
10°	745.0	745.9	751.7	750.7	751.7	745.9	745.0	743.1	740.2	743.1	753.6
12.5°	796.6	805.2	836.8	834.9	836.8	805.2	796.6	758.4	732.5	727.8	729.7
15°	855.9	858.8	865.5	866.4	865.5	858.8	855.9	840.6	763.1	729.7	719.2
17.5°	861.6	862.6	867.4	867.4	867.4	862.6	861.6	854.9	829.1	784.2	724.9
20°	856.8	858.8	868.3	870.2	868.3	858.8	856.8	848.2	833.9	817.6	772.7
22.5°	854.9	858.8	866.4	865.5	866.4	858.8	854.9	841.5	829.1	817.6	799.5
25°	845.4	845.4	846.3	847.3	846.3	845.4	845.4	834.9	810.0	807.1	796.6
27.5°	825.3	827.2	832.9	832.0	832.9	827.2	825.3	821.5	794.7	791.8	784.2
30°	807.1	805.2	800.4	796.6	800.4	805.2	807.1	801.4	774.6	767.0	768.9
32.5°	776.5	771.7	767.0	764.1	767.0	771.7	776.5	774.6	754.5	744.0	745.9
35°	740.2	741.1	740.2	737.3	740.2	741.1	740.2	742.1	729.7	720.1	719.2
37.5°	714.4	716.3	715.3	711.5	715.3	716.3	714.4	712.5	695.2	692.4	694.3
40°	687.6	688.6	687.6	684.7	687.6	688.6	687.6	683.8	659.9	660.8	667.5
42.5°	661.8	660.8	658.0	656.0	658.0	660.8	661.8	656.0	625.4	622.6	635.0
45°	632.1	633.1	627.4	624.5	627.4	633.1	632.1	628.3	596.8	589.1	597.7
47.5°	602.5	602.5	597.7	594.8	597.7	602.5	602.5	597.7	564.2	556.6	561.4
50°	570.9	570.0	563.3	562.3	563.3	570.0	570.9	568.1	532.7	526.0	526.0
52.5°	534.6	534.6	535.6	537.5	535.6	534.6	534.6	535.6	504.0	497.3	495.4
55°	503.1	504.0	510.7	512.6	510.7	504.0	503.1	503.1	474.4	467.7	463.8
57.5°	470.5	470.5	475.3	475.3	475.3	470.5	470.5	468.6	440.9	435.2	433.3
60°	433.3	435.2	439.0	438.0	439.0	435.2	433.3	431.3	407.4	403.6	396.9
62.5°	394.0	396.0	396.9	395.0	396.9	396.0	394.0	388.3	374.0	371.1	362.5
65°	352.9	354.8	355.8	353.9	355.8	354.8	352.9	350.1	339.4	334.7	327.0
67.5°	310.8	309.8	308.9	312.7	308.9	309.8	310.8	306.9	300.2	296.4	285.9
70°	267.7	267.7	266.8	268.7	266.8	267.7	267.7	264.9	261.0	258.2	248.6
72.5°	221.8	220.9	224.7	221.8	224.7	220.9	221.8	220.9	219.0	216.1	206.5
75°	176.9	178.8	176.9	179.8	176.9	178.8	176.9	177.9	176.9	175.0	168.3
77.5°	134.8	136.7	134.8	134.8	134.8	136.7	134.8	135.8	135.8	135.8	130.0
80°	95.6	94.7	94.7	93.7	94.7	94.7	95.6	95.6	96.6	94.7	92.8
82.5°	61.2	60.2	60.2	62.2	60.2	60.2	61.2	62.2	60.2	60.2	60.2
85°	33.5	34.4	32.5	32.5	32.5	34.4	33.5	31.6	33.5	33.5	32.5
87.5°	12.4	11.5	11.5	11.5	11.5	11.5	12.4	13.4	13.4	13.4	14.3
90°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	30.2	40.3	45.3	39.0
92.5°	113.3	108.8	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.2	224.0
95°	384.7	371.0	316.4	261.8	316.4	371.0	384.7	505.2	665.8	746.1	630.1
97.5°	888.0	862.0	758.2	654.2	758.2	862.0	888.0	964.1	1065.7	1116.5	923.1
100°	1247.1	1216.1	1092.4	968.5	1092.4	1216.1	1247.1	1241.5	1234.1	1230.3	1015.8
102.5°	1553.6	1527.1	1421.1	1315.1	1421.1	1527.1	1553.6	1456.6	1327.2	1262.6	1044.9
105°	1911.4	1897.2	1840.2	1783.2	1840.2	1897.2	1911.4	1693.9	1403.9	1258.9	1048.2
107.5°	2097.5	2100.9	2114.7	2128.5	2114.7	2100.9	2097.5	1794.1	1389.6	1187.4	1001.6
110°	2145.2	2160.0	2219.4	2278.8	2219.4	2160.0	2145.2	1806.1	1353.9	1127.7	960.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2114.8	2137.6	2228.8	2319.9	2228.8	2137.6	2114.8	1767.7	1304.9	1073.5	924.2
115°	2011.6	2043.3	2169.7	2296.1	2169.7	2043.3	2011.6	1677.3	1231.4	1008.5	882.8
117.5°	1869.1	1904.2	2044.3	2184.5	2044.3	1904.2	1869.1	1567.3	1164.9	963.7	856.8
120°	1773.1	1807.1	1943.4	2079.6	1943.4	1807.1	1773.1	1497.3	1129.6	945.9	848.0
122.5°	1677.1	1710.6	1845.1	1979.4	1845.1	1710.6	1677.1	1428.7	1097.7	932.2	843.6
125°	1550.0	1581.0	1704.7	1828.5	1704.7	1581.0	1550.0	1339.1	1057.8	917.3	839.7
127.5°	1448.1	1474.2	1578.6	1683.0	1578.6	1474.2	1448.1	1267.0	1025.5	904.7	837.5
130°	1383.6	1407.7	1504.2	1600.7	1504.2	1407.7	1383.6	1222.4	1007.4	900.0	838.9
132.5°	1328.7	1350.3	1436.7	1523.1	1436.7	1350.3	1328.7	1184.4	992.0	895.8	839.7
135°	1251.2	1269.8	1344.3	1418.8	1344.3	1269.8	1251.2	1130.3	969.2	888.6	838.9
137.5°	1194.0	1209.2	1270.2	1331.1	1270.2	1209.2	1194.0	1091.8	955.5	887.4	844.1
140°	1148.0	1162.3	1219.2	1276.2	1219.2	1162.3	1148.0	1059.7	942.0	883.2	845.0
142.5°	1115.9	1128.1	1177.2	1226.1	1177.2	1128.1	1115.9	1038.3	935.0	883.2	848.0
145°	1067.5	1076.8	1114.0	1151.1	1114.0	1076.8	1067.5	1004.1	919.6	877.3	848.0
147.5°	1027.0	1034.6	1065.4	1096.2	1065.4	1034.6	1027.0	977.0	910.6	877.3	853.9
150°	1003.7	1009.9	1034.9	1059.7	1034.9	1009.9	1003.7	961.5	905.4	877.3	856.8
152.5°	985.3	989.9	1008.8	1027.5	1008.8	989.9	985.3	949.3	901.3	877.3	858.9
155°	963.2	966.3	978.8	991.2	978.8	966.3	963.2	934.6	896.4	877.3	863.3
157.5°	944.0	946.2	954.9	963.7	954.9	946.2	944.0	921.8	892.1	877.3	867.6
160°	934.5	935.7	940.8	945.9	940.8	935.7	934.5	915.5	890.0	877.3	869.7
162.5°	925.6	926.7	931.5	936.3	931.5	926.7	925.6	909.5	888.0	877.3	871.8
165°	911.8	913.1	918.1	923.2	918.1	913.1	911.8	900.4	885.0	877.3	874.8
167.5°	905.9	906.5	908.6	910.7	908.6	906.5	905.9	898.3	888.3	883.2	881.1
170°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	898.3	888.3	883.2	883.1
172.5°	901.1	900.6	898.8	897.0	898.8	900.6	901.1	895.2	887.3	883.2	883.2
175°	894.6	894.6	894.6	894.6	894.6	894.6	894.6	890.8	885.7	883.2	884.4
177.5°	893.4	892.8	890.7	888.6	890.7	892.8	893.4	890.4	886.5	884.5	885.4
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	998.4	1003.1	1006.0	1009.8	1019.4
5°	960.1	978.3	984.0	998.4	1015.6
7.5°	876.0	931.4	946.7	981.1	1007.9
10°	794.7	850.2	876.9	958.2	998.4
12.5°	753.6	786.1	804.3	918.0	985.0
15°	727.8	750.7	764.1	864.5	969.7
17.5°	707.7	723.9	733.5	811.9	948.6
20°	695.2	702.9	711.5	773.7	924.7
22.5°	686.6	681.9	688.6	746.9	892.2
25°	680.9	662.7	670.4	725.8	854.0
27.5°	685.7	645.5	648.4	706.7	813.8
30°	686.6	624.5	625.4	686.6	768.9
32.5°	679.9	602.5	603.5	661.8	718.2
35°	663.7	576.7	575.7	633.1	649.4
37.5°	641.7	549.0	549.0	601.5	573.8
40°	614.9	521.2	524.1	560.4	506.9
42.5°	582.4	491.6	495.4	505.9	457.2
45°	547.0	462.9	465.8	427.5	418.9
47.5°	507.8	433.3	434.2	354.8	406.5
50°	461.0	402.7	398.8	304.1	405.5
52.5°	419.9	369.2	357.7	275.4	368.2
55°	379.7	333.7	308.9	253.4	341.5
57.5°	344.3	287.8	263.9	227.6	335.6
60°	311.7	242.9	224.7	199.8	307.9
62.5°	284.9	209.4	205.6	180.7	279.2
65°	256.3	186.5	185.5	164.5	237.1
67.5°	228.5	171.2	170.2	149.2	180.7
70°	198.9	154.9	153.0	132.9	133.9
72.5°	168.3	136.7	134.8	119.5	110.9
75°	137.7	115.7	114.7	104.2	89.9
77.5°	108.0	91.8	93.7	84.1	66.0
80°	77.5	66.9	68.8	60.2	49.7
82.5°	51.6	44.0	45.9	38.2	33.5
85°	28.7	24.9	25.8	20.1	15.3
87.5°	13.4	11.5	11.5	7.6	4.8
90°	26.3	16.7	15.5	10.7	5.9
92.5°	161.8	115.1	105.0	64.4	23.8
95°	398.2	224.2	205.7	131.5	57.3
97.5°	536.3	246.3	230.0	164.5	99.0
100°	586.6	264.8	249.9	190.6	131.2
102.5°	609.8	283.3	269.5	214.1	158.6
105°	626.8	310.8	299.0	252.1	205.2
107.5°	630.0	351.3	340.4	296.6	252.9
110°	625.3	374.0	364.1	324.5	285.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	625.4	401.4	392.0	354.4	316.7
115°	631.2	442.5	433.8	399.1	364.4
117.5°	642.9	482.5	474.7	443.1	411.5
120°	652.4	505.7	498.3	468.6	438.9
122.5°	666.2	533.2	525.7	495.7	465.8
125°	684.6	568.4	561.6	534.2	507.0
127.5°	703.1	602.3	595.4	567.9	540.3
130°	716.7	625.0	617.5	587.9	558.2
132.5°	727.6	643.5	636.1	606.4	576.7
135°	739.5	664.9	658.1	631.2	604.1
137.5°	757.4	692.4	685.7	658.9	632.1
140°	768.4	710.9	704.8	680.1	655.5
142.5°	777.5	724.6	718.9	696.1	673.4
145°	789.4	745.4	740.5	720.7	700.8
147.5°	806.9	771.7	766.9	747.6	728.1
150°	816.0	785.4	781.0	763.6	746.1
152.5°	822.0	794.4	791.1	777.9	764.6
155°	835.1	814.1	811.6	801.9	792.0
157.5°	848.2	833.7	831.3	821.8	812.3
160°	854.3	842.7	840.9	833.4	826.0
162.5°	860.6	852.3	850.8	845.3	839.7
165°	869.8	865.9	864.7	859.6	854.6
167.5°	876.8	873.7	873.1	870.7	868.3
170°	882.9	882.7	882.1	879.7	877.3
172.5°	883.2	883.2	883.1	882.6	882.1
175°	886.8	888.6	888.6	888.6	888.6
177.5°	887.3	888.6	888.6	888.6	888.6
180°	888.6	888.6	888.6	888.6	888.6



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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	10.53	11.25	11.63	12.35	13.86	13.33	14.04	14.43	15.14	16.66
	3H	11.00	11.64	12.11	12.75	14.28	14.65	15.29	15.76	16.40	17.93
	4H	11.18	11.79	12.30	12.90	14.44	15.08	15.69	16.20	16.80	18.34
	6H	11.29	11.85	12.42	12.96	14.51	15.35	15.91	16.48	17.02	18.57
	8H	11.29	11.82	12.42	12.95	14.49	15.42	15.95	16.55	17.08	18.62
	12H	11.26	11.76	12.39	12.88	14.45	15.45	15.95	16.59	17.07	18.64
4H	2H	11.54	12.15	12.67	13.25	14.79	13.72	14.33	14.85	15.44	16.98
	3H	12.55	13.06	13.69	14.19	15.74	15.20	15.71	16.34	16.84	18.40
	4H	12.82	13.29	13.96	14.41	15.98	15.72	16.18	16.86	17.31	18.88
	6H	12.94	13.34	14.08	14.48	16.04	16.07	16.47	17.21	17.61	19.17
	8H	12.94	13.31	14.08	14.45	16.03	16.17	16.54	17.31	17.68	19.25
	12H	12.90	13.24	14.06	14.39	15.97	16.21	16.55	17.37	17.70	19.28
8H	4H	13.26	13.63	14.40	14.77	16.35	15.83	16.20	16.98	17.34	18.92
	6H	13.51	13.82	14.68	15.00	16.58	16.25	16.56	17.42	17.74	19.32
	8H	13.55	13.82	14.72	14.98	16.58	16.40	16.67	17.57	17.83	19.42
	12H	13.53	13.77	14.71	14.92	16.55	16.49	16.72	17.66	17.88	19.51
12H	4H	13.26	13.59	14.42	14.74	16.33	15.79	16.13	16.95	17.28	18.86
	6H	13.57	13.84	14.74	15.00	16.59	16.25	16.52	17.42	17.68	19.27
	8H	13.63	13.87	14.80	15.02	16.65	16.40	16.64	17.57	17.79	19.42