

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: P935983

Luminaire Tested: SQ4-FA-150U-075D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935983
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-B2750-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

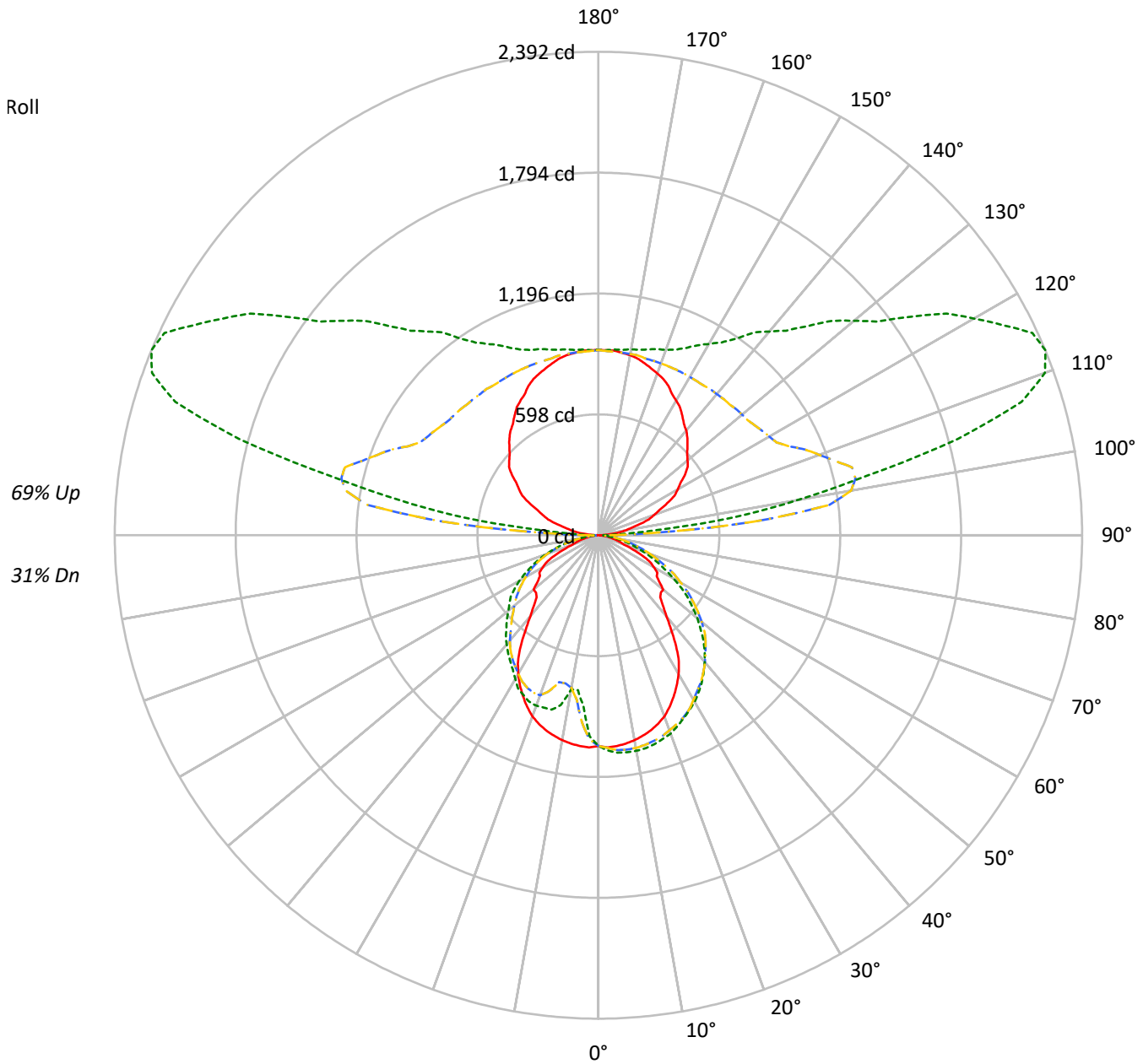
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8646.2 lumens
Efficiency: N/A
Efficacy: 135.9 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°	9672	9672	9672	9672
5°	9733	9764	9733	7677
10°	9658	9618	9658	6876
15°	9542	9410	9542	7857
20°	9332	9162	9332	7873
25°	8912	8802	8912	7706
30°	8374	8503	8374	7340
35°	7455	8126	7455	6938
40°	6201	7680	6201	6634
45°	5531	7159	5531	6284
50°	5862	6538	5862	5933
55°	5500	5869	5500	5730
60°	5648	4985	5648	5248
65°	5095	4120	5095	4606
70°	3503	3284	3503	3860
75°	3040	2427	3040	2907
80°	2401	1604	2401	1747
85°	1308	849	1308	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	1.1
10°-20°	267.1	3.1
20°-30°	413.0	4.8
30°-40°	493.0	5.7
40°-50°	495.9	5.7
50°-60°	431.5	5.0
60°-70°	305.9	3.5
70°-80°	161.8	1.9
80°-90°	43.8	0.5
90°-100°	446.7	5.2
100°-110°	1174.3	13.6
110°-120°	1217.6	14.1
120°-130°	976.7	11.3
130°-140°	766.3	8.9
140°-150°	588.2	6.8
150°-160°	423.6	4.9
160°-170°	259.2	3.0
170°-180°	87.6	1.0
0°-30°	774.2	9.0
0°-40°	1267.2	14.7
0°-60°	2194.5	25.4
0°-90°	2706.1	31.3
90°-120°	2838.6	32.8
90°-150°	5169.8	59.8
90°-180°	5940.0	68.7
0°-180°	8646.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1042	1042	1042	1042	1042	
5°	1047	1080	1047	849	1047	99
15°	1000	1070	1000	893	1000	281
25°	881	998	881	874	881	404
35°	670	890	670	760	670	414
45°	432	734	432	644	432	346
55°	352	541	352	529	352	324
65°	244	326	244	365	244	234
75°	93	155	93	185	93	97
85°	16	39	16	34	16	21
90°	6	23	6	23	6	6
95°	59	270	59	270	59	66
105°	212	1839	212	1839	212	224
115°	376	2368	376	2368	376	371
125°	523	1886	523	1886	523	464
135°	623	1463	623	1463	623	482
145°	723	1187	723	1187	723	453
155°	817	1022	817	1022	817	375
165°	881	952	881	952	881	249
175°	916	922	916	922	916	87
180°	916	916	916	916	916	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1051.2	1051.2	1057.2	1059.2	1059.2	1056.2	1053.2	1056.2	1065.1	1068.0	1067.0
5°	1047.2	1055.2	1066.1	1068.0	1070.0	1069.0	1067.0	1069.0	1078.9	1080.9	1081.8
7.5°	1039.3	1054.2	1068.0	1071.0	1074.0	1071.0	1070.0	1072.0	1081.8	1083.8	1083.8
10°	1029.5	1050.2	1066.1	1068.0	1071.0	1068.0	1068.0	1072.0	1081.8	1083.8	1084.8
12.5°	1015.7	1044.3	1059.2	1061.1	1065.1	1064.1	1063.1	1067.0	1076.9	1078.9	1078.9
15°	999.9	1033.4	1047.2	1049.2	1056.2	1054.2	1054.2	1058.2	1069.0	1072.0	1071.0
17.5°	978.2	1019.6	1035.4	1038.4	1043.3	1042.3	1043.3	1047.2	1057.2	1059.2	1060.1
20°	953.6	1000.9	1019.6	1022.6	1027.5	1027.5	1027.5	1032.4	1042.3	1046.2	1046.2
22.5°	920.0	981.2	1000.9	1002.9	1008.8	1008.8	1010.7	1017.7	1026.5	1027.5	1027.5
25°	880.6	959.5	976.2	982.2	988.1	991.0	994.0	997.9	1000.9	999.9	1000.9
27.5°	839.2	931.9	953.6	957.5	965.4	968.4	972.3	973.3	974.3	977.2	975.3
30°	792.8	893.4	926.0	929.9	942.7	944.7	940.7	942.7	947.6	949.6	951.6
32.5°	740.6	836.2	897.4	906.2	918.1	912.1	911.2	914.1	922.0	922.0	924.0
35°	669.6	791.9	870.7	878.6	887.5	880.6	884.5	885.5	890.5	893.4	892.4
37.5°	591.7	753.4	843.1	849.0	855.9	847.1	853.0	855.9	859.9	857.9	857.9
40°	522.7	693.3	810.6	814.5	820.5	813.5	819.5	821.4	823.4	821.4	820.5
42.5°	471.4	627.2	776.1	781.0	777.1	782.0	784.0	787.9	785.0	781.0	781.0
45°	432.0	609.4	738.6	744.5	738.6	746.5	749.5	749.5	740.6	738.6	737.6
47.5°	419.1	574.0	701.1	701.1	698.2	708.0	713.0	706.1	697.2	694.2	694.2
50°	418.2	534.5	649.9	645.9	659.7	671.6	666.6	659.7	652.8	642.0	642.0
52.5°	379.7	486.2	583.8	598.6	620.3	627.2	619.3	612.4	600.6	595.6	591.7
55°	352.1	435.9	523.7	553.2	575.9	584.8	570.0	563.1	545.4	542.4	540.4
57.5°	346.1	362.9	468.4	505.9	533.5	532.5	523.7	510.8	496.1	493.1	492.1
60°	317.5	262.3	409.3	453.7	482.3	479.3	471.4	459.6	445.8	443.8	441.8
62.5°	287.9	190.3	342.1	392.5	433.0	432.0	425.1	407.3	397.5	392.5	388.6
65°	244.5	159.7	243.5	326.4	384.6	386.6	371.8	359.0	348.1	342.1	341.2
67.5°	186.4	130.2	164.7	272.1	338.2	336.2	317.5	311.6	297.8	294.8	288.9
70°	138.0	86.8	114.4	220.9	292.8	287.9	273.1	266.2	253.4	246.5	242.6
72.5°	114.4	70.0	83.8	171.6	246.5	240.6	227.8	219.9	209.0	203.1	199.2
75°	92.7	74.0	64.1	127.2	200.2	196.2	184.4	176.5	167.6	159.7	160.7
77.5°	68.0	69.0	51.3	93.7	158.7	152.8	145.9	136.1	132.1	124.2	124.2
80°	51.3	54.2	38.5	64.1	114.4	114.4	108.5	101.6	94.7	90.7	90.7
82.5°	34.5	34.5	28.6	40.4	77.9	74.9	71.0	69.0	65.1	63.1	63.1
85°	15.8	19.7	17.7	24.6	42.4	44.4	44.4	42.4	41.4	39.4	40.4
87.5°	4.9	8.9	10.8	13.8	21.7	22.7	23.7	23.7	23.7	24.6	24.6
90°	6.1	11.0	16.0	17.3	27.1	40.2	46.7	41.5	31.2	23.4	23.4
92.5°	24.6	66.4	108.3	118.7	166.8	231.0	263.2	230.6	165.6	116.8	112.2
95°	59.1	135.6	212.1	231.2	410.6	649.8	769.4	686.6	520.9	396.7	382.6
97.5°	102.1	169.6	237.1	254.0	553.0	951.9	1151.3	1098.9	994.2	915.7	888.9
100°	135.3	196.5	257.7	273.0	604.9	1047.4	1268.7	1272.5	1280.2	1285.9	1254.0
102.5°	163.6	220.8	277.9	292.2	628.8	1077.5	1301.9	1368.6	1502.0	1602.1	1574.7
105°	211.6	260.0	308.3	320.4	646.3	1080.9	1298.2	1447.6	1746.7	1971.0	1956.3
107.5°	260.8	305.9	351.0	362.3	649.7	1032.8	1224.4	1433.0	1850.0	2162.9	2166.4
110°	293.9	334.6	375.5	385.6	644.7	990.1	1162.9	1396.1	1862.4	2212.1	2227.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	326.6	365.4	404.3	413.9	644.9	953.0	1107.0	1345.6	1822.8	2180.7	2204.2
115°	375.8	411.6	447.3	456.3	650.9	910.3	1039.9	1269.8	1729.5	2074.3	2107.0
117.5°	424.4	456.9	489.5	497.5	663.0	883.6	993.8	1201.2	1616.2	1927.3	1963.5
120°	452.6	483.2	513.8	521.5	672.7	874.5	975.4	1164.9	1544.0	1828.3	1863.4
122.5°	480.3	511.1	542.1	549.8	686.9	869.8	961.3	1131.9	1473.3	1729.3	1764.0
125°	522.8	550.9	579.1	586.1	706.0	865.9	945.9	1090.8	1380.8	1598.3	1630.3
127.5°	557.2	585.6	614.0	621.1	725.0	863.6	933.0	1057.5	1306.4	1493.2	1520.1
130°	575.6	606.2	636.8	644.4	739.0	865.0	928.0	1038.8	1260.5	1426.7	1451.6
132.5°	594.7	625.3	655.9	663.6	750.2	865.9	923.7	1022.9	1221.4	1370.1	1392.4
135°	623.0	650.9	678.7	685.7	762.6	865.0	916.3	999.4	1165.6	1290.2	1309.4
137.5°	651.8	679.5	707.1	714.0	781.0	870.4	915.1	985.3	1125.8	1231.2	1246.9
140°	675.9	701.3	726.8	733.1	792.3	871.3	910.8	971.4	1092.8	1183.8	1198.5
142.5°	694.3	717.8	741.3	747.2	801.7	874.4	910.8	964.1	1070.7	1150.7	1163.3
145°	722.6	743.1	763.6	768.7	814.0	874.5	904.7	948.2	1035.4	1100.8	1110.3
147.5°	750.8	770.9	790.8	795.8	832.1	880.5	904.7	939.0	1007.5	1059.0	1066.9
150°	769.4	787.4	805.4	809.9	841.5	883.6	904.7	933.6	991.5	1035.0	1041.4
152.5°	788.4	802.1	815.7	819.2	847.7	885.6	904.7	929.4	978.9	1016.0	1020.8
155°	816.7	826.9	836.9	839.5	861.2	890.2	904.7	924.4	963.7	993.2	996.5
157.5°	837.6	847.5	857.2	859.7	874.7	894.7	904.7	919.9	950.5	973.5	975.7
160°	851.7	859.4	867.1	869.0	880.9	896.8	904.7	917.8	944.0	963.6	964.9
162.5°	865.9	871.6	877.3	878.8	887.4	898.9	904.7	915.7	937.9	954.4	955.6
165°	881.3	886.4	891.6	892.9	896.9	902.1	904.7	912.5	928.4	940.2	941.5
167.5°	895.4	897.9	900.3	900.9	904.2	908.6	910.8	916.0	926.3	934.1	934.7
170°	904.7	907.1	909.6	910.2	910.4	910.7	910.8	916.0	926.3	934.1	934.1
172.5°	909.6	910.1	910.7	910.8	910.8	910.8	910.8	914.9	923.1	929.2	928.7
175°	916.3	916.3	916.3	916.3	914.4	912.0	910.8	913.3	918.6	922.5	922.5
177.5°	916.3	916.3	916.3	916.3	914.9	913.0	912.0	914.1	918.2	921.2	920.6
180°	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1069.0	1066.1	1069.0	1067.0	1068.0	1065.1	1056.2	1053.2	1056.2	1059.2	1059.2
5°	1081.8	1079.9	1081.8	1081.8	1080.9	1078.9	1069.0	1067.0	1069.0	1070.0	1068.0
7.5°	1085.8	1082.8	1085.8	1083.8	1083.8	1081.8	1072.0	1070.0	1071.0	1074.0	1071.0
10°	1085.8	1082.8	1085.8	1084.8	1083.8	1081.8	1072.0	1068.0	1068.0	1071.0	1068.0
12.5°	1080.9	1078.9	1080.9	1078.9	1078.9	1076.9	1067.0	1063.1	1064.1	1065.1	1061.1
15°	1073.0	1070.0	1073.0	1071.0	1072.0	1069.0	1058.2	1054.2	1054.2	1056.2	1049.2
17.5°	1061.1	1057.2	1061.1	1060.1	1059.2	1057.2	1047.2	1043.3	1042.3	1043.3	1038.4
20°	1047.2	1044.3	1047.2	1046.2	1046.2	1042.3	1032.4	1027.5	1027.5	1027.5	1022.6
22.5°	1025.5	1022.6	1025.5	1027.5	1027.5	1026.5	1017.7	1010.7	1008.8	1008.8	1002.9
25°	1000.9	997.9	1000.9	1000.9	999.9	1000.9	997.9	994.0	991.0	988.1	982.2
27.5°	977.2	975.3	977.2	975.3	977.2	974.3	973.3	972.3	968.4	965.4	957.5
30°	953.6	951.6	953.6	951.6	949.6	947.6	942.7	940.7	944.7	942.7	929.9
32.5°	924.0	922.0	924.0	924.0	922.0	922.0	914.1	911.2	912.1	918.1	906.2
35°	893.4	890.5	893.4	892.4	893.4	890.5	885.5	884.5	880.6	887.5	878.6
37.5°	857.9	855.0	857.9	857.9	857.9	859.9	855.9	853.0	847.1	855.9	849.0
40°	821.4	817.5	821.4	820.5	821.4	823.4	821.4	819.5	813.5	820.5	814.5
42.5°	780.0	779.0	780.0	781.0	781.0	785.0	787.9	784.0	782.0	777.1	781.0
45°	735.7	733.7	735.7	737.6	738.6	740.6	749.5	749.5	746.5	738.6	744.5
47.5°	688.3	683.4	688.3	694.2	694.2	697.2	706.1	713.0	708.0	698.2	701.1
50°	638.0	639.0	638.0	642.0	642.0	652.8	659.7	666.6	671.6	659.7	645.9
52.5°	588.7	587.8	588.7	591.7	595.6	600.6	612.4	619.3	627.2	620.3	598.6
55°	539.4	541.4	539.4	540.4	542.4	545.4	563.1	570.0	584.8	575.9	553.2
57.5°	490.1	487.2	490.1	492.1	493.1	496.1	510.8	523.7	532.5	533.5	505.9
60°	433.0	429.0	433.0	441.8	443.8	445.8	459.6	471.4	479.3	482.3	453.7
62.5°	382.7	375.8	382.7	388.6	392.5	397.5	407.3	425.1	432.0	433.0	392.5
65°	329.3	326.4	329.3	341.2	342.1	348.1	359.0	371.8	386.6	384.6	326.4
67.5°	281.0	281.0	281.0	288.9	294.8	297.8	311.6	317.5	336.2	338.2	272.1
70°	236.6	235.7	236.6	242.6	246.5	253.4	266.2	273.1	287.9	292.8	220.9
72.5°	194.2	193.3	194.2	199.2	203.1	209.0	219.9	227.8	240.6	246.5	171.6
75°	156.8	154.8	156.8	160.7	159.7	167.6	176.5	184.4	196.2	200.2	127.2
77.5°	120.3	120.3	120.3	124.2	124.2	132.1	136.1	145.9	152.8	158.7	93.7
80°	89.7	88.7	89.7	90.7	90.7	94.7	101.6	108.5	114.4	114.4	64.1
82.5°	63.1	61.1	63.1	63.1	63.1	65.1	69.0	71.0	74.9	77.9	40.4
85°	39.4	39.4	39.4	40.4	39.4	41.4	42.4	44.4	44.4	42.4	24.6
87.5°	25.6	24.6	25.6	24.6	24.6	23.7	23.7	23.7	22.7	21.7	13.8
90°	23.4	23.4	23.4	23.4	23.4	31.2	41.5	46.7	40.2	27.1	17.3
92.5°	93.6	75.0	93.6	112.2	116.8	165.6	230.6	263.2	231.0	166.8	118.7
95°	326.3	270.0	326.3	382.6	396.7	520.9	686.6	769.4	649.8	410.6	231.2
97.5°	781.8	674.6	781.8	888.9	915.7	994.2	1098.9	1151.3	951.9	553.0	254.0
100°	1126.4	998.7	1126.4	1254.0	1285.9	1280.2	1272.5	1268.7	1047.4	604.9	273.0
102.5°	1465.4	1356.0	1465.4	1574.7	1602.1	1502.0	1368.6	1301.9	1077.5	628.8	292.2
105°	1897.6	1838.8	1897.6	1956.3	1971.0	1746.7	1447.6	1298.2	1080.9	646.3	320.4
107.5°	2180.6	2194.8	2180.6	2166.4	2162.9	1850.0	1433.0	1224.4	1032.8	649.7	362.3
110°	2288.6	2349.8	2288.6	2227.4	2212.1	1862.4	1396.1	1162.9	990.1	644.7	385.6



TEST NUMBER: P935983

CATALOG NUMBER: SQ4-FA-150U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2298.3	2392.2	2298.3	2204.2	2180.7	1822.8	1345.6	1107.0	953.0	644.9	413.9
115°	2237.3	2367.7	2237.3	2107.0	2074.3	1729.5	1269.8	1039.9	910.3	650.9	456.3
117.5°	2108.1	2252.6	2108.1	1963.5	1927.3	1616.2	1201.2	993.8	883.6	663.0	497.5
120°	2003.9	2144.5	2003.9	1863.4	1828.3	1544.0	1164.9	975.4	874.5	672.7	521.5
122.5°	1902.6	2041.1	1902.6	1764.0	1729.3	1473.3	1131.9	961.3	869.8	686.9	549.8
125°	1757.8	1885.5	1757.8	1630.3	1598.3	1380.8	1090.8	945.9	865.9	706.0	586.1
127.5°	1627.8	1735.5	1627.8	1520.1	1493.2	1306.4	1057.5	933.0	863.6	725.0	621.1
130°	1551.1	1650.6	1551.1	1451.6	1426.7	1260.5	1038.8	928.0	865.0	739.0	644.4
132.5°	1481.5	1570.6	1481.5	1392.4	1370.1	1221.4	1022.9	923.7	865.9	750.2	663.6
135°	1386.2	1463.0	1386.2	1309.4	1290.2	1165.6	999.4	916.3	865.0	762.6	685.7
137.5°	1309.8	1372.6	1309.8	1246.9	1231.2	1125.8	985.3	915.1	870.4	781.0	714.0
140°	1257.2	1316.0	1257.2	1198.5	1183.8	1092.8	971.4	910.8	871.3	792.3	733.1
142.5°	1213.9	1264.3	1213.9	1163.3	1150.7	1070.7	964.1	910.8	874.4	801.7	747.2
145°	1148.7	1186.9	1148.7	1110.3	1100.8	1035.4	948.2	904.7	874.5	814.0	768.7
147.5°	1098.6	1130.4	1098.6	1066.9	1059.0	1007.5	939.0	904.7	880.5	832.1	795.8
150°	1067.1	1092.8	1067.1	1041.4	1035.0	991.5	933.6	904.7	883.6	841.5	809.9
152.5°	1040.2	1059.6	1040.2	1020.8	1016.0	978.9	929.4	904.7	885.6	847.7	819.2
155°	1009.3	1022.1	1009.3	996.5	993.2	963.7	924.4	904.7	890.2	861.2	839.5
157.5°	984.7	993.8	984.7	975.7	973.5	950.5	919.9	904.7	894.7	874.7	859.7
160°	970.1	975.4	970.1	964.9	963.6	944.0	917.8	904.7	896.8	880.9	869.0
162.5°	960.6	965.5	960.6	955.6	954.4	937.9	915.7	904.7	898.9	887.4	878.8
165°	946.8	952.0	946.8	941.5	940.2	928.4	912.5	904.7	902.1	896.9	892.9
167.5°	936.9	939.1	936.9	934.7	934.1	926.3	916.0	910.8	908.6	904.2	900.9
170°	934.1	934.1	934.1	934.1	934.1	926.3	916.0	910.8	910.7	910.4	910.2
172.5°	926.8	925.0	926.8	928.7	929.2	923.1	914.9	910.8	910.8	910.8	910.8
175°	922.5	922.5	922.5	922.5	922.5	918.6	913.3	910.8	912.0	914.4	916.3
177.5°	918.5	916.3	918.5	920.6	921.2	918.2	914.1	912.0	913.0	914.9	916.3
180°	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3



TEST NUMBER: P935983

CATALOG NUMBER: SQ4-FA-150U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1057.2	1051.2	1051.2	1041.3	1037.4	1034.4	1029.5	1014.7	1010.7	1006.8	1012.7
5°	1066.1	1055.2	1047.2	1029.5	1014.7	1008.8	990.0	954.5	930.9	913.1	903.3
7.5°	1068.0	1054.2	1039.3	1011.7	976.2	960.5	903.3	838.2	820.5	804.7	794.8
10°	1066.1	1050.2	1029.5	988.1	904.3	876.7	819.5	777.1	766.2	763.3	766.2
12.5°	1059.2	1044.3	1015.7	946.7	829.3	810.6	777.1	752.4	750.4	755.4	782.0
15°	1047.2	1033.4	999.9	891.4	787.9	774.1	750.4	741.6	752.4	786.9	866.8
17.5°	1035.4	1019.6	978.2	837.2	756.4	746.5	729.7	747.5	808.6	855.0	881.6
20°	1019.6	1000.9	953.6	797.8	733.7	724.8	716.9	796.8	843.1	859.9	874.7
22.5°	1000.9	981.2	920.0	770.2	710.0	703.1	708.0	824.4	843.1	855.0	867.8
25°	976.2	959.5	880.6	748.5	691.3	683.4	702.1	821.4	832.3	835.2	860.9
27.5°	953.6	931.9	839.2	728.8	668.6	665.6	707.1	808.6	816.5	819.5	847.1
30°	926.0	893.4	792.8	708.0	644.9	644.0	708.0	792.8	790.9	798.8	826.4
32.5°	897.4	836.2	740.6	682.4	622.3	621.3	701.1	769.2	767.2	778.1	798.8
35°	870.7	791.9	669.6	652.8	593.7	594.7	684.4	741.6	742.6	752.4	765.2
37.5°	843.1	753.4	591.7	620.3	566.1	566.1	661.7	715.9	714.0	716.9	734.7
40°	810.6	693.3	522.7	577.9	540.4	537.5	634.1	688.3	681.4	680.4	705.1
42.5°	776.1	627.2	471.4	521.7	510.8	506.9	600.6	654.8	642.0	644.9	676.5
45°	738.6	609.4	432.0	440.8	480.3	477.3	564.1	616.3	607.5	615.4	647.9
47.5°	701.1	574.0	419.1	365.9	447.7	446.8	523.7	578.9	574.0	581.8	616.3
50°	649.9	534.5	418.2	313.5	411.3	415.2	475.4	542.4	542.4	549.3	585.8
52.5°	583.8	486.2	379.7	284.0	368.9	380.7	433.0	510.8	512.8	519.7	552.3
55°	523.7	435.9	352.1	261.3	318.5	344.1	391.5	478.3	482.3	489.2	518.7
57.5°	468.4	362.9	346.1	234.7	272.1	296.8	355.1	446.8	448.7	454.6	483.2
60°	409.3	262.3	317.5	206.1	231.7	250.4	321.4	409.3	416.2	420.1	444.8
62.5°	342.1	190.3	287.9	186.4	212.0	215.9	293.8	373.8	382.7	385.6	400.4
65°	243.5	159.7	244.5	169.6	191.3	192.3	264.2	337.2	345.1	350.0	361.0
67.5°	164.7	130.2	186.4	153.8	175.5	176.5	235.7	294.8	305.7	309.6	316.5
70°	114.4	86.8	138.0	137.1	157.8	159.7	205.1	256.4	266.2	269.2	273.1
72.5°	83.8	70.0	114.4	123.2	139.0	141.0	173.5	213.0	222.8	225.8	227.8
75°	64.1	74.0	92.7	107.5	118.3	119.3	142.0	173.5	180.4	182.4	183.4
77.5°	51.3	69.0	68.0	86.8	96.6	94.7	111.4	134.1	140.0	140.0	140.0
80°	38.5	54.2	51.3	62.1	71.0	69.0	79.9	95.6	97.6	99.6	98.6
82.5°	28.6	34.5	34.5	39.4	47.3	45.4	53.2	62.1	62.1	62.1	64.1
85°	17.7	19.7	15.8	20.7	26.6	25.6	29.6	33.5	34.5	34.5	32.5
87.5°	10.8	8.9	4.9	7.9	11.8	11.8	13.8	14.8	13.8	13.8	13.8
90°	16.0	11.0	6.1	11.0	16.0	17.3	27.1	40.2	46.7	41.5	31.2
92.5°	108.3	66.4	24.6	66.4	108.3	118.7	166.8	231.0	263.2	230.6	165.6
95°	212.1	135.6	59.1	135.6	212.1	231.2	410.6	649.8	769.4	686.6	520.9
97.5°	237.1	169.6	102.1	169.6	237.1	254.0	553.0	951.9	1151.3	1098.9	994.2
100°	257.7	196.5	135.3	196.5	257.7	273.0	604.9	1047.4	1268.7	1272.5	1280.2
102.5°	277.9	220.8	163.6	220.8	277.9	292.2	628.8	1077.5	1301.9	1368.6	1502.0
105°	308.3	260.0	211.6	260.0	308.3	320.4	646.3	1080.9	1298.2	1447.6	1746.7
107.5°	351.0	305.9	260.8	305.9	351.0	362.3	649.7	1032.8	1224.4	1433.0	1850.0
110°	375.5	334.6	293.9	334.6	375.5	385.6	644.7	990.1	1162.9	1396.1	1862.4



TEST NUMBER: P935983

CATALOG NUMBER: SQ4-FA-150U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	404.3	365.4	326.6	365.4	404.3	413.9	644.9	953.0	1107.0	1345.6	1822.8
115°	447.3	411.6	375.8	411.6	447.3	456.3	650.9	910.3	1039.9	1269.8	1729.5
117.5°	489.5	456.9	424.4	456.9	489.5	497.5	663.0	883.6	993.8	1201.2	1616.2
120°	513.8	483.2	452.6	483.2	513.8	521.5	672.7	874.5	975.4	1164.9	1544.0
122.5°	542.1	511.1	480.3	511.1	542.1	549.8	686.9	869.8	961.3	1131.9	1473.3
125°	579.1	550.9	522.8	550.9	579.1	586.1	706.0	865.9	945.9	1090.8	1380.8
127.5°	614.0	585.6	557.2	585.6	614.0	621.1	725.0	863.6	933.0	1057.5	1306.4
130°	636.8	606.2	575.6	606.2	636.8	644.4	739.0	865.0	928.0	1038.8	1260.5
132.5°	655.9	625.3	594.7	625.3	655.9	663.6	750.2	865.9	923.7	1022.9	1221.4
135°	678.7	650.9	623.0	650.9	678.7	685.7	762.6	865.0	916.3	999.4	1165.6
137.5°	707.1	679.5	651.8	679.5	707.1	714.0	781.0	870.4	915.1	985.3	1125.8
140°	726.8	701.3	675.9	701.3	726.8	733.1	792.3	871.3	910.8	971.4	1092.8
142.5°	741.3	717.8	694.3	717.8	741.3	747.2	801.7	874.4	910.8	964.1	1070.7
145°	763.6	743.1	722.6	743.1	763.6	768.7	814.0	874.5	904.7	948.2	1035.4
147.5°	790.8	770.9	750.8	770.9	790.8	795.8	832.1	880.5	904.7	939.0	1007.5
150°	805.4	787.4	769.4	787.4	805.4	809.9	841.5	883.6	904.7	933.6	991.5
152.5°	815.7	802.1	788.4	802.1	815.7	819.2	847.7	885.6	904.7	929.4	978.9
155°	836.9	826.9	816.7	826.9	836.9	839.5	861.2	890.2	904.7	924.4	963.7
157.5°	857.2	847.5	837.6	847.5	857.2	859.7	874.7	894.7	904.7	919.9	950.5
160°	867.1	859.4	851.7	859.4	867.1	869.0	880.9	896.8	904.7	917.8	944.0
162.5°	877.3	871.6	865.9	871.6	877.3	878.8	887.4	898.9	904.7	915.7	937.9
165°	891.6	886.4	881.3	886.4	891.6	892.9	896.9	902.1	904.7	912.5	928.4
167.5°	900.3	897.9	895.4	897.9	900.3	900.9	904.2	908.6	910.8	916.0	926.3
170°	909.6	907.1	904.7	907.1	909.6	910.2	910.4	910.7	910.8	916.0	926.3
172.5°	910.7	910.1	909.6	910.1	910.7	910.8	910.8	910.8	910.8	914.9	923.1
175°	916.3	916.3	916.3	916.3	916.3	916.3	914.4	912.0	910.8	913.3	918.6
177.5°	916.3	916.3	916.3	916.3	916.3	916.3	914.9	913.0	912.0	914.1	918.2
180°	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3



TEST NUMBER: P935983
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1005.8	1002.9	1006.8	996.0	1006.8	1002.9	1005.8	1012.7	1006.8	1010.7	1014.7
5°	882.6	877.6	861.9	849.0	861.9	877.6	882.6	903.3	913.1	930.9	954.5
7.5°	788.9	785.0	781.0	773.1	781.0	785.0	788.9	794.8	804.7	820.5	838.2
10°	768.2	769.2	775.1	774.1	775.1	769.2	768.2	766.2	763.3	766.2	777.1
12.5°	821.4	830.3	862.8	860.9	862.8	830.3	821.4	782.0	755.4	750.4	752.4
15°	882.6	885.5	892.4	893.4	892.4	885.5	882.6	866.8	786.9	752.4	741.6
17.5°	888.5	889.5	894.4	894.4	894.4	889.5	888.5	881.6	855.0	808.6	747.5
20°	883.6	885.5	895.4	897.4	895.4	885.5	883.6	874.7	859.9	843.1	796.8
22.5°	881.6	885.5	893.4	892.4	893.4	885.5	881.6	867.8	855.0	843.1	824.4
25°	871.7	871.7	872.7	873.7	872.7	871.7	871.7	860.9	835.2	832.3	821.4
27.5°	851.0	853.0	858.9	857.9	858.9	853.0	851.0	847.1	819.5	816.5	808.6
30°	832.3	830.3	825.4	821.4	825.4	830.3	832.3	826.4	798.8	790.9	792.8
32.5°	800.7	795.8	790.9	787.9	790.9	795.8	800.7	798.8	778.1	767.2	769.2
35°	763.3	764.2	763.3	760.3	763.3	764.2	763.3	765.2	752.4	742.6	741.6
37.5°	736.6	738.6	737.6	733.7	737.6	738.6	736.6	734.7	716.9	714.0	715.9
40°	709.0	710.0	709.0	706.1	709.0	710.0	709.0	705.1	680.4	681.4	688.3
42.5°	682.4	681.4	678.5	676.5	678.5	681.4	682.4	676.5	644.9	642.0	654.8
45°	651.8	652.8	646.9	644.0	646.9	652.8	651.8	647.9	615.4	607.5	616.3
47.5°	621.3	621.3	616.3	613.4	616.3	621.3	621.3	616.3	581.8	574.0	578.9
50°	588.7	587.8	580.9	579.9	580.9	587.8	588.7	585.8	549.3	542.4	542.4
52.5°	551.3	551.3	552.3	554.2	552.3	551.3	551.3	552.3	519.7	512.8	510.8
55°	518.7	519.7	526.6	528.6	526.6	519.7	518.7	518.7	489.2	482.3	478.3
57.5°	485.2	485.2	490.1	490.1	490.1	485.2	485.2	483.2	454.6	448.7	446.8
60°	446.8	448.7	452.7	451.7	452.7	448.7	446.8	444.8	420.1	416.2	409.3
62.5°	406.3	408.3	409.3	407.3	409.3	408.3	406.3	400.4	385.6	382.7	373.8
65°	363.9	365.9	366.9	364.9	366.9	365.9	363.9	361.0	350.0	345.1	337.2
67.5°	320.4	319.5	318.5	322.4	318.5	319.5	320.4	316.5	309.6	305.7	294.8
70°	276.1	276.1	275.1	277.1	275.1	276.1	276.1	273.1	269.2	266.2	256.4
72.5°	228.8	227.8	231.7	228.8	231.7	227.8	228.8	227.8	225.8	222.8	213.0
75°	182.4	184.4	182.4	185.4	182.4	184.4	182.4	183.4	182.4	180.4	173.5
77.5°	139.0	141.0	139.0	139.0	139.0	141.0	139.0	140.0	140.0	140.0	134.1
80°	98.6	97.6	97.6	96.6	97.6	97.6	98.6	98.6	99.6	97.6	95.6
82.5°	63.1	62.1	62.1	64.1	62.1	62.1	63.1	64.1	62.1	62.1	62.1
85°	34.5	35.5	33.5	33.5	33.5	35.5	34.5	32.5	34.5	34.5	33.5
87.5°	12.8	11.8	11.8	11.8	11.8	11.8	12.8	13.8	13.8	13.8	14.8
90°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	31.2	41.5	46.7	40.2
92.5°	116.8	112.2	93.6	75.0	93.6	112.2	116.8	165.6	230.6	263.2	231.0
95°	396.7	382.6	326.3	270.0	326.3	382.6	396.7	520.9	686.6	769.4	649.8
97.5°	915.7	888.9	781.8	674.6	781.8	888.9	915.7	994.2	1098.9	1151.3	951.9
100°	1285.9	1254.0	1126.4	998.7	1126.4	1254.0	1285.9	1280.2	1272.5	1268.7	1047.4
102.5°	1602.1	1574.7	1465.4	1356.0	1465.4	1574.7	1602.1	1502.0	1368.6	1301.9	1077.5
105°	1971.0	1956.3	1897.6	1838.8	1897.6	1956.3	1971.0	1746.7	1447.6	1298.2	1080.9
107.5°	2162.9	2166.4	2180.6	2194.8	2180.6	2166.4	2162.9	1850.0	1433.0	1224.4	1032.8
110°	2212.1	2227.4	2288.6	2349.8	2288.6	2227.4	2212.1	1862.4	1396.1	1162.9	990.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2180.7	2204.2	2298.3	2392.2	2298.3	2204.2	2180.7	1822.8	1345.6	1107.0	953.0
115°	2074.3	2107.0	2237.3	2367.7	2237.3	2107.0	2074.3	1729.5	1269.8	1039.9	910.3
117.5°	1927.3	1963.5	2108.1	2252.6	2108.1	1963.5	1927.3	1616.2	1201.2	993.8	883.6
120°	1828.3	1863.4	2003.9	2144.5	2003.9	1863.4	1828.3	1544.0	1164.9	975.4	874.5
122.5°	1729.3	1764.0	1902.6	2041.1	1902.6	1764.0	1729.3	1473.3	1131.9	961.3	869.8
125°	1598.3	1630.3	1757.8	1885.5	1757.8	1630.3	1598.3	1380.8	1090.8	945.9	865.9
127.5°	1493.2	1520.1	1627.8	1735.5	1627.8	1520.1	1493.2	1306.4	1057.5	933.0	863.6
130°	1426.7	1451.6	1551.1	1650.6	1551.1	1451.6	1426.7	1260.5	1038.8	928.0	865.0
132.5°	1370.1	1392.4	1481.5	1570.6	1481.5	1392.4	1370.1	1221.4	1022.9	923.7	865.9
135°	1290.2	1309.4	1386.2	1463.0	1386.2	1309.4	1290.2	1165.6	999.4	916.3	865.0
137.5°	1231.2	1246.9	1309.8	1372.6	1309.8	1246.9	1231.2	1125.8	985.3	915.1	870.4
140°	1183.8	1198.5	1257.2	1316.0	1257.2	1198.5	1183.8	1092.8	971.4	910.8	871.3
142.5°	1150.7	1163.3	1213.9	1264.3	1213.9	1163.3	1150.7	1070.7	964.1	910.8	874.4
145°	1100.8	1110.3	1148.7	1186.9	1148.7	1110.3	1100.8	1035.4	948.2	904.7	874.5
147.5°	1059.0	1066.9	1098.6	1130.4	1098.6	1066.9	1059.0	1007.5	939.0	904.7	880.5
150°	1035.0	1041.4	1067.1	1092.8	1067.1	1041.4	1035.0	991.5	933.6	904.7	883.6
152.5°	1016.0	1020.8	1040.2	1059.6	1040.2	1020.8	1016.0	978.9	929.4	904.7	885.6
155°	993.2	996.5	1009.3	1022.1	1009.3	996.5	993.2	963.7	924.4	904.7	890.2
157.5°	973.5	975.7	984.7	993.8	984.7	975.7	973.5	950.5	919.9	904.7	894.7
160°	963.6	964.9	970.1	975.4	970.1	964.9	963.6	944.0	917.8	904.7	896.8
162.5°	954.4	955.6	960.6	965.5	960.6	955.6	954.4	937.9	915.7	904.7	898.9
165°	940.2	941.5	946.8	952.0	946.8	941.5	940.2	928.4	912.5	904.7	902.1
167.5°	934.1	934.7	936.9	939.1	936.9	934.7	934.1	926.3	916.0	910.8	908.6
170°	934.1	934.1	934.1	934.1	934.1	934.1	934.1	926.3	916.0	910.8	910.7
172.5°	929.2	928.7	926.8	925.0	926.8	928.7	929.2	923.1	914.9	910.8	910.8
175°	922.5	922.5	922.5	922.5	922.5	922.5	922.5	918.6	913.3	910.8	912.0
177.5°	921.2	920.6	918.5	916.3	918.5	920.6	921.2	918.2	914.1	912.0	913.0
180°	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3	916.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1029.5	1034.4	1037.4	1041.3	1051.2
5°	990.0	1008.8	1014.7	1029.5	1047.2
7.5°	903.3	960.5	976.2	1011.7	1039.3
10°	819.5	876.7	904.3	988.1	1029.5
12.5°	777.1	810.6	829.3	946.7	1015.7
15°	750.4	774.1	787.9	891.4	999.9
17.5°	729.7	746.5	756.4	837.2	978.2
20°	716.9	724.8	733.7	797.8	953.6
22.5°	708.0	703.1	710.0	770.2	920.0
25°	702.1	683.4	691.3	748.5	880.6
27.5°	707.1	665.6	668.6	728.8	839.2
30°	708.0	644.0	644.9	708.0	792.8
32.5°	701.1	621.3	622.3	682.4	740.6
35°	684.4	594.7	593.7	652.8	669.6
37.5°	661.7	566.1	566.1	620.3	591.7
40°	634.1	537.5	540.4	577.9	522.7
42.5°	600.6	506.9	510.8	521.7	471.4
45°	564.1	477.3	480.3	440.8	432.0
47.5°	523.7	446.8	447.7	365.9	419.1
50°	475.4	415.2	411.3	313.5	418.2
52.5°	433.0	380.7	368.9	284.0	379.7
55°	391.5	344.1	318.5	261.3	352.1
57.5°	355.1	296.8	272.1	234.7	346.1
60°	321.4	250.4	231.7	206.1	317.5
62.5°	293.8	215.9	212.0	186.4	287.9
65°	264.2	192.3	191.3	169.6	244.5
67.5°	235.7	176.5	175.5	153.8	186.4
70°	205.1	159.7	157.8	137.1	138.0
72.5°	173.5	141.0	139.0	123.2	114.4
75°	142.0	119.3	118.3	107.5	92.7
77.5°	111.4	94.7	96.6	86.8	68.0
80°	79.9	69.0	71.0	62.1	51.3
82.5°	53.2	45.4	47.3	39.4	34.5
85°	29.6	25.6	26.6	20.7	15.8
87.5°	13.8	11.8	11.8	7.9	4.9
90°	27.1	17.3	16.0	11.0	6.1
92.5°	166.8	118.7	108.3	66.4	24.6
95°	410.6	231.2	212.1	135.6	59.1
97.5°	553.0	254.0	237.1	169.6	102.1
100°	604.9	273.0	257.7	196.5	135.3
102.5°	628.8	292.2	277.9	220.8	163.6
105°	646.3	320.4	308.3	260.0	211.6
107.5°	649.7	362.3	351.0	305.9	260.8
110°	644.7	385.6	375.5	334.6	293.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	644.9	413.9	404.3	365.4	326.6
115°	650.9	456.3	447.3	411.6	375.8
117.5°	663.0	497.5	489.5	456.9	424.4
120°	672.7	521.5	513.8	483.2	452.6
122.5°	686.9	549.8	542.1	511.1	480.3
125°	706.0	586.1	579.1	550.9	522.8
127.5°	725.0	621.1	614.0	585.6	557.2
130°	739.0	644.4	636.8	606.2	575.6
132.5°	750.2	663.6	655.9	625.3	594.7
135°	762.6	685.7	678.7	650.9	623.0
137.5°	781.0	714.0	707.1	679.5	651.8
140°	792.3	733.1	726.8	701.3	675.9
142.5°	801.7	747.2	741.3	717.8	694.3
145°	814.0	768.7	763.6	743.1	722.6
147.5°	832.1	795.8	790.8	770.9	750.8
150°	841.5	809.9	805.4	787.4	769.4
152.5°	847.7	819.2	815.7	802.1	788.4
155°	861.2	839.5	836.9	826.9	816.7
157.5°	874.7	859.7	857.2	847.5	837.6
160°	880.9	869.0	867.1	859.4	851.7
162.5°	887.4	878.8	877.3	871.6	865.9
165°	896.9	892.9	891.6	886.4	881.3
167.5°	904.2	900.9	900.3	897.9	895.4
170°	910.4	910.2	909.6	907.1	904.7
172.5°	910.8	910.8	910.7	910.1	909.6
175°	914.4	916.3	916.3	916.3	916.3
177.5°	914.9	916.3	916.3	916.3	916.3
180°	916.3	916.3	916.3	916.3	916.3



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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	10.64	11.35	11.74	12.45	13.97	13.44	14.15	14.54	15.25	16.77
	3H	11.10	11.74	12.21	12.85	14.38	14.76	15.40	15.87	16.51	18.04
	4H	11.29	11.90	12.41	13.00	14.54	15.19	15.80	16.31	16.91	18.44
	6H	11.40	11.96	12.53	13.07	14.62	15.46	16.02	16.59	17.13	18.68
	8H	11.40	11.93	12.53	13.06	14.60	15.53	16.06	16.66	17.18	18.73
	12H	11.36	11.87	12.50	12.99	14.55	15.55	16.06	16.69	17.18	18.75
4H	2H	11.64	12.25	12.77	13.36	14.90	13.83	14.44	14.96	15.54	17.08
	3H	12.66	13.16	13.79	14.30	15.85	15.31	15.82	16.44	16.95	18.50
	4H	12.93	13.39	14.07	14.52	16.09	15.82	16.29	16.96	17.41	18.98
	6H	13.04	13.44	14.19	14.59	16.15	16.17	16.57	17.32	17.72	19.28
	8H	13.05	13.42	14.19	14.56	16.14	16.27	16.64	17.42	17.78	19.36
	12H	13.01	13.34	14.17	14.49	16.08	16.32	16.65	17.48	17.80	19.39
8H	4H	13.36	13.74	14.51	14.87	16.45	15.94	16.31	17.08	17.45	19.03
	6H	13.62	13.93	14.78	15.11	16.68	16.36	16.67	17.53	17.85	19.42
	8H	13.66	13.93	14.83	15.09	16.68	16.51	16.77	17.68	17.93	19.53
	12H	13.64	13.87	14.81	15.03	16.66	16.59	16.83	17.77	17.98	19.61
12H	4H	13.36	13.70	14.52	14.85	16.43	15.90	16.23	17.06	17.38	18.97
	6H	13.68	13.95	14.85	15.11	16.70	16.36	16.62	17.53	17.78	19.38
	8H	13.74	13.97	14.91	15.13	16.76	16.51	16.74	17.68	17.90	19.53