

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: P935088

Luminaire Tested: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

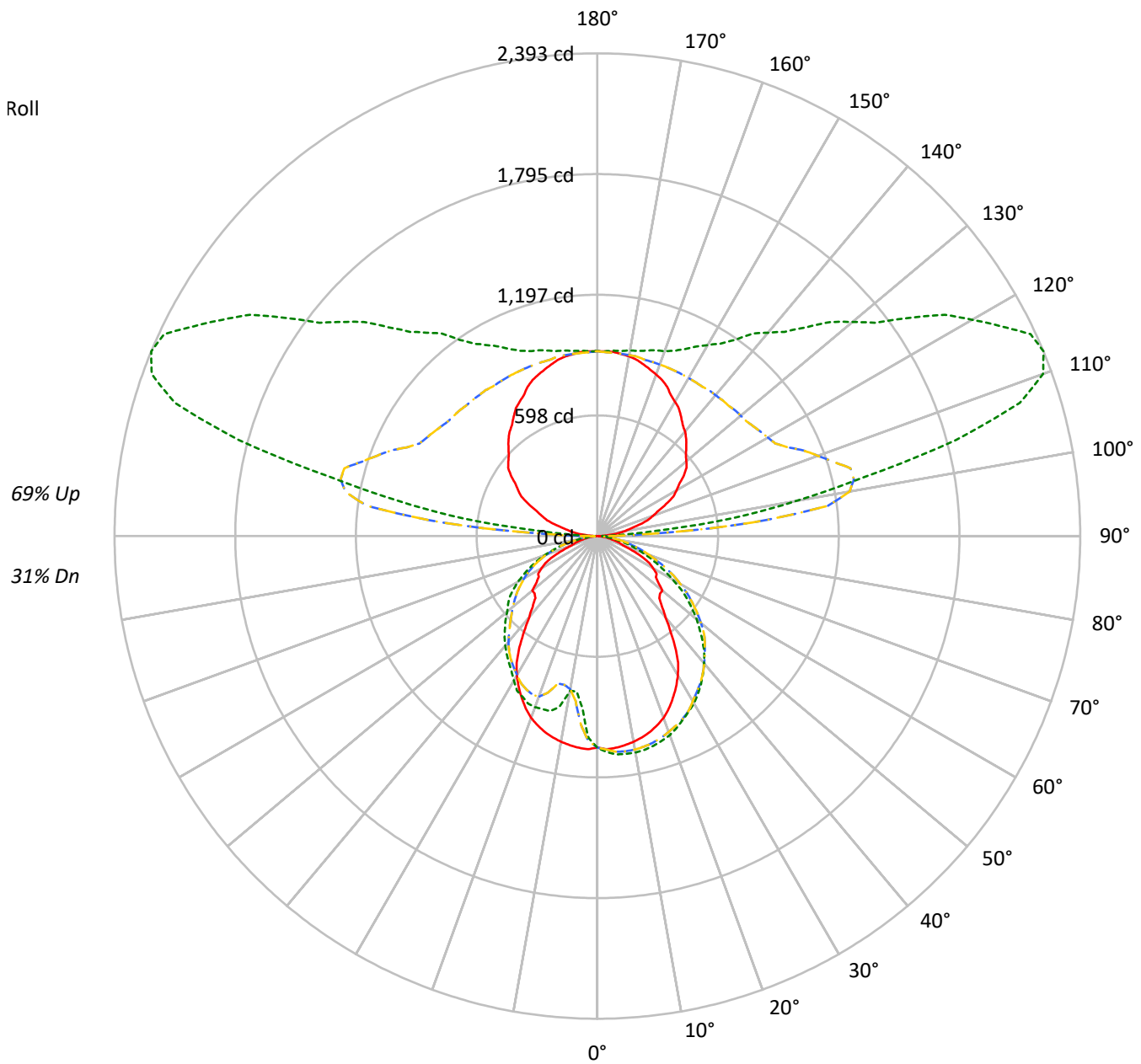
Test Method: LM-79-2019  
Report Number: P935088  
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8664.0 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 61.8  
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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CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-3000K

### 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				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	35	34	33	33	33	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	28	28	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	24	24	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	20	20	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	18	18	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	15	15	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	14	14	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	12	12	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	11	11	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	10	10	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6531	6547	6531	5148
10°	6486	6449	6486	4611
15°	6413	6309	6413	5268
20°	6277	6144	6277	5279
25°	5999	5903	5999	5167
30°	5642	5702	5642	4922
35°	5028	5449	5028	4652
40°	4187	5150	4187	4448
45°	3738	4800	3738	4214
50°	3968	4384	3968	3978
55°	3730	3936	3730	3842
60°	3841	3342	3841	3519
65°	3477	2763	3477	3088
70°	2401	2201	2401	2589
75°	2099	1627	2099	1949
80°	1679	1075	1679	1172
85°	948	569	948	484

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5734 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.6	1.1
10°-20°	268.7	3.1
20°-30°	415.4	4.8
30°-40°	495.9	5.7
40°-50°	498.8	5.8
50°-60°	434.0	5.0
60°-70°	307.7	3.6
70°-80°	162.8	1.9
80°-90°	44.0	0.5
90°-100°	446.8	5.2
100°-110°	1174.7	13.6
110°-120°	1218.0	14.1
120°-130°	977.0	11.3
130°-140°	766.6	8.8
140°-150°	588.4	6.8
150°-160°	423.7	4.9
160°-170°	259.3	3.0
170°-180°	87.6	1.0
0°-30°	778.7	9.0
0°-40°	1274.6	14.7
0°-60°	2207.3	25.5
0°-90°	2721.9	31.4
90°-120°	2839.5	32.8
90°-150°	5171.5	59.7
90°-180°	5942.0	68.6
0°-180°	8664.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1048	1048	1048	1048	1048	
5°	1053	1086	1053	854	1053	100
15°	1006	1076	1006	899	1006	283
25°	886	1004	886	879	886	407
35°	674	896	674	765	674	417
45°	434	738	434	648	434	348
55°	354	545	354	532	354	325
65°	246	328	246	367	246	235
75°	93	156	93	186	93	98
85°	16	40	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	1464	623	1464	623	482
145°	723	1187	723	1187	723	453
155°	817	1022	817	1022	817	375
165°	882	952	882	952	882	249
175°	917	923	917	923	917	87
180°	917	917	917	917	917	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1057.4	1057.4	1063.3	1065.3	1065.3	1062.3	1059.4	1062.3	1071.3	1074.2	1073.3
5°	1053.3	1061.3	1072.3	1074.2	1076.2	1075.2	1073.3	1075.2	1085.1	1087.2	1088.1
7.5°	1045.5	1060.3	1074.2	1077.2	1080.2	1077.2	1076.2	1078.2	1088.1	1090.1	1090.1
10°	1035.5	1056.4	1072.3	1074.2	1077.2	1074.2	1074.2	1078.2	1088.1	1090.1	1091.1
12.5°	1021.7	1050.4	1065.3	1067.2	1071.3	1070.3	1069.2	1073.3	1083.1	1085.1	1085.1
15°	1005.8	1039.5	1053.3	1055.4	1062.3	1060.3	1060.3	1064.3	1075.2	1078.2	1077.2
17.5°	983.9	1025.6	1041.5	1044.5	1049.4	1048.4	1049.4	1053.3	1063.3	1065.3	1066.3
20°	959.2	1006.8	1025.6	1028.6	1033.5	1033.5	1033.5	1038.6	1048.4	1052.4	1052.4
22.5°	925.5	986.9	1006.8	1008.8	1014.7	1014.7	1016.7	1023.7	1032.5	1033.5	1033.5
25°	885.7	965.1	982.0	988.0	993.9	996.8	999.8	1003.8	1006.8	1005.8	1006.8
27.5°	844.1	937.3	959.2	963.1	971.1	974.1	978.0	979.0	980.0	982.9	981.0
30°	797.5	898.6	931.4	935.3	948.2	950.2	946.3	948.2	953.2	955.2	957.2
32.5°	744.9	841.2	902.6	911.6	923.5	917.5	916.5	919.4	927.4	927.4	929.4
35°	673.5	796.5	875.9	883.8	892.7	885.7	889.8	890.8	895.7	898.6	897.7
37.5°	595.1	757.8	848.1	854.0	861.0	852.0	858.0	861.0	864.9	862.9	862.9
40°	525.7	697.3	815.3	819.3	825.3	818.3	824.3	826.3	828.2	826.3	825.3
42.5°	474.2	630.8	780.6	785.5	781.6	786.5	788.6	792.5	789.6	785.5	785.5
45°	434.4	613.0	743.0	748.9	743.0	750.8	753.8	753.8	744.9	743.0	742.0
47.5°	421.5	577.3	705.3	705.3	702.2	712.2	717.1	710.2	701.2	698.3	698.3
50°	420.5	537.6	653.6	649.7	663.6	675.5	670.5	663.6	656.7	645.7	645.7
52.5°	381.9	489.0	587.2	602.1	623.9	630.8	623.0	616.0	604.0	599.1	595.1
55°	354.1	438.4	526.7	556.5	579.3	588.1	573.4	566.4	548.5	545.6	543.6
57.5°	348.2	365.0	471.1	508.9	536.6	535.6	526.7	513.8	498.9	496.0	495.0
60°	319.4	263.9	411.7	456.3	485.0	482.1	474.2	462.2	448.3	446.4	444.4
62.5°	289.6	191.5	344.2	394.8	435.4	434.4	427.5	409.7	399.7	394.8	390.9
65°	246.0	160.7	245.0	328.3	386.8	388.8	374.0	361.1	350.1	344.2	343.2
67.5°	187.4	130.9	165.6	273.8	340.3	338.2	319.4	313.4	299.5	296.6	290.7
70°	138.8	87.3	115.1	222.1	294.6	289.6	274.8	267.8	254.9	248.0	244.0
72.5°	115.1	70.4	84.3	172.6	248.0	242.1	229.1	221.2	210.3	204.3	200.4
75°	93.3	74.3	64.5	128.0	201.3	197.4	185.5	177.6	168.6	160.7	161.7
77.5°	68.4	69.4	51.6	94.3	159.7	153.7	146.8	136.9	132.9	125.0	125.0
80°	51.6	54.5	38.7	64.5	115.1	115.1	109.2	102.1	95.2	91.3	91.3
82.5°	34.7	34.7	28.8	40.6	78.4	75.4	71.4	69.4	65.5	63.5	63.5
85°	15.9	19.8	17.8	24.7	42.7	44.7	44.7	42.7	41.7	39.6	40.6
87.5°	4.9	9.0	10.9	13.9	21.8	22.8	23.8	23.8	23.8	24.7	24.7
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	66.5	108.3	118.7	166.9	231.1	263.3	230.7	165.6	116.8	112.2
95°	59.1	135.6	212.2	231.3	410.8	650.0	769.6	686.7	521.0	396.8	382.7
97.5°	102.1	169.7	237.2	254.1	553.2	952.2	1151.6	1099.3	994.6	916.0	889.2
100°	135.4	196.6	257.8	273.1	605.1	1047.7	1269.1	1272.9	1280.6	1286.3	1254.4
102.5°	163.7	220.9	278.0	292.3	629.0	1077.9	1302.3	1369.1	1502.5	1602.5	1575.2
105°	211.6	260.0	308.4	320.5	646.6	1081.3	1298.7	1448.2	1747.3	1971.6	1956.9
107.5°	260.8	306.0	351.1	362.4	649.9	1033.1	1224.8	1433.4	1850.6	2163.6	2167.1
110°	294.0	334.7	375.6	385.7	644.9	990.5	1163.3	1396.5	1862.9	2212.8	2228.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	326.7	365.5	404.4	414.0	645.1	953.3	1107.3	1346.0	1823.4	2181.4	2204.9
115°	375.9	411.7	447.4	456.4	651.1	910.5	1040.2	1270.2	1730.1	2075.0	2107.7
117.5°	424.5	457.0	489.5	497.6	663.1	883.8	994.1	1201.6	1616.6	1927.9	1964.1
120°	452.8	483.4	514.0	521.7	673.0	874.8	975.6	1165.3	1544.5	1828.9	1864.0
122.5°	480.5	511.3	542.3	550.0	687.1	870.0	961.5	1132.3	1473.8	1729.8	1764.5
125°	522.9	551.1	579.3	586.3	706.3	866.2	946.2	1091.2	1381.3	1598.9	1630.8
127.5°	557.4	585.8	614.3	621.4	725.3	863.9	933.2	1057.8	1306.8	1493.7	1520.6
130°	575.8	606.5	637.1	644.7	739.3	865.3	928.3	1039.1	1260.9	1427.2	1452.1
132.5°	594.9	625.5	656.1	663.8	750.5	866.2	924.0	1023.3	1221.8	1370.6	1392.9
135°	623.2	651.1	679.0	686.0	762.9	865.3	916.6	999.7	1165.9	1290.7	1309.9
137.5°	652.0	679.6	707.4	714.3	781.3	870.7	915.4	985.7	1126.2	1231.6	1247.3
140°	676.1	701.5	727.0	733.3	792.5	871.5	911.1	971.8	1093.2	1184.2	1198.9
142.5°	694.5	718.1	741.6	747.5	802.0	874.7	911.1	964.4	1071.0	1151.0	1163.6
145°	722.8	743.3	763.9	769.0	814.3	874.8	905.0	948.5	1035.8	1101.2	1110.7
147.5°	751.1	771.1	791.0	796.0	832.3	880.7	905.0	939.3	1007.9	1059.4	1067.2
150°	769.6	787.6	805.7	810.2	841.7	883.9	905.0	933.9	991.8	1035.3	1041.7
152.5°	788.7	802.4	816.0	819.5	848.0	885.9	905.0	929.7	979.2	1016.3	1021.1
155°	817.0	827.1	837.1	839.7	861.5	890.5	905.0	924.7	964.0	993.5	996.7
157.5°	837.9	847.8	857.5	860.0	875.0	895.0	905.0	920.2	950.9	973.9	976.1
160°	852.0	859.7	867.4	869.3	881.2	897.1	905.0	918.1	944.3	964.0	965.3
162.5°	866.2	871.9	877.6	879.1	887.7	899.2	905.0	916.0	938.2	954.7	955.9
165°	881.6	886.7	891.9	893.2	897.2	902.4	905.0	912.8	928.7	940.6	941.9
167.5°	895.7	898.1	900.6	901.2	904.5	908.9	911.1	916.3	926.6	934.4	935.0
170°	905.0	907.4	909.9	910.5	910.7	911.0	911.1	916.3	926.6	934.4	934.4
172.5°	909.9	910.4	911.0	911.1	911.1	911.1	911.1	915.2	923.4	929.5	929.0
175°	916.6	916.6	916.6	916.6	914.7	912.2	911.1	913.6	918.9	922.8	922.8
177.5°	916.6	916.6	916.6	916.6	915.2	913.3	912.3	914.4	918.5	921.5	920.9
180°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1075.2	1072.3	1075.2	1073.3	1074.2	1071.3	1062.3	1059.4	1062.3	1065.3	1065.3
5°	1088.1	1086.1	1088.1	1088.1	1087.2	1085.1	1075.2	1073.3	1075.2	1076.2	1074.2
7.5°	1092.1	1089.1	1092.1	1090.1	1090.1	1088.1	1078.2	1076.2	1077.2	1080.2	1077.2
10°	1092.1	1089.1	1092.1	1091.1	1090.1	1088.1	1078.2	1074.2	1074.2	1077.2	1074.2
12.5°	1087.2	1085.1	1087.2	1085.1	1085.1	1083.1	1073.3	1069.2	1070.3	1071.3	1067.2
15°	1079.2	1076.2	1079.2	1077.2	1078.2	1075.2	1064.3	1060.3	1060.3	1062.3	1055.4
17.5°	1067.2	1063.3	1067.2	1066.3	1065.3	1063.3	1053.3	1049.4	1048.4	1049.4	1044.5
20°	1053.3	1050.4	1053.3	1052.4	1052.4	1048.4	1038.6	1033.5	1033.5	1033.5	1028.6
22.5°	1031.6	1028.6	1031.6	1033.5	1033.5	1032.5	1023.7	1016.7	1014.7	1014.7	1008.8
25°	1006.8	1003.8	1006.8	1006.8	1005.8	1006.8	1003.8	999.8	996.8	993.9	988.0
27.5°	982.9	981.0	982.9	981.0	982.9	980.0	979.0	978.0	974.1	971.1	963.1
30°	959.2	957.2	959.2	957.2	955.2	953.2	948.2	946.3	950.2	948.2	935.3
32.5°	929.4	927.4	929.4	929.4	927.4	927.4	919.4	916.5	917.5	923.5	911.6
35°	898.6	895.7	898.6	897.7	898.6	895.7	890.8	889.8	885.7	892.7	883.8
37.5°	862.9	860.0	862.9	862.9	862.9	864.9	861.0	858.0	852.0	861.0	854.0
40°	826.3	822.3	826.3	825.3	826.3	828.2	826.3	824.3	818.3	825.3	819.3
42.5°	784.6	783.6	784.6	785.5	785.5	789.6	792.5	788.6	786.5	781.6	785.5
45°	740.0	737.9	740.0	742.0	743.0	744.9	753.8	753.8	750.8	743.0	748.9
47.5°	692.4	687.3	692.4	698.3	698.3	701.2	710.2	717.1	712.2	702.2	705.3
50°	641.8	642.8	641.8	645.7	645.7	656.7	663.6	670.5	675.5	663.6	649.7
52.5°	592.2	591.2	592.2	595.1	599.1	604.0	616.0	623.0	630.8	623.9	602.1
55°	542.6	544.6	542.6	543.6	545.6	548.5	566.4	573.4	588.1	579.3	556.5
57.5°	493.0	490.0	493.0	495.0	496.0	498.9	513.8	526.7	535.6	536.6	508.9
60°	435.4	431.5	435.4	444.4	446.4	448.3	462.2	474.2	482.1	485.0	456.3
62.5°	384.8	377.9	384.8	390.9	394.8	399.7	409.7	427.5	434.4	435.4	394.8
65°	331.3	328.3	331.3	343.2	344.2	350.1	361.1	374.0	388.8	386.8	328.3
67.5°	282.7	282.7	282.7	290.7	296.6	299.5	313.4	319.4	338.2	340.3	273.8
70°	238.0	237.0	238.0	244.0	248.0	254.9	267.8	274.8	289.6	294.6	222.1
72.5°	195.4	194.4	195.4	200.4	204.3	210.3	221.2	229.1	242.1	248.0	172.6
75°	157.8	155.7	157.8	161.7	160.7	168.6	177.6	185.5	197.4	201.3	128.0
77.5°	121.0	121.0	121.0	125.0	125.0	132.9	136.9	146.8	153.7	159.7	94.3
80°	90.2	89.2	90.2	91.3	91.3	95.2	102.1	109.2	115.1	115.1	64.5
82.5°	63.5	61.5	63.5	63.5	63.5	65.5	69.4	71.4	75.4	78.4	40.6
85°	39.6	39.6	39.6	40.6	39.6	41.7	42.7	44.7	44.7	42.7	24.7
87.5°	25.8	24.7	25.8	24.7	24.7	23.8	23.8	23.8	22.8	21.8	13.9
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	230.7	263.3	231.1	166.9	118.7
95°	326.4	270.1	326.4	382.7	396.8	521.0	686.7	769.6	650.0	410.8	231.3
97.5°	782.0	674.8	782.0	889.2	916.0	994.6	1099.3	1151.6	952.2	553.2	254.1
100°	1126.7	999.0	1126.7	1254.4	1286.3	1280.6	1272.9	1269.1	1047.7	605.1	273.1
102.5°	1465.8	1356.4	1465.8	1575.2	1602.5	1502.5	1369.1	1302.3	1077.9	629.0	292.3
105°	1898.1	1839.4	1898.1	1956.9	1971.6	1747.3	1448.2	1298.7	1081.3	646.6	320.5
107.5°	2181.4	2195.6	2181.4	2167.1	2163.6	1850.6	1433.4	1224.8	1033.1	649.9	362.4
110°	2289.4	2350.6	2289.4	2228.1	2212.8	1862.9	1396.5	1163.3	990.5	644.9	385.7





TEST NUMBER: P935088

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2299.0	2393.0	2299.0	2204.9	2181.4	1823.4	1346.0	1107.3	953.3	645.1	414.0
115°	2238.0	2368.5	2238.0	2107.7	2075.0	1730.1	1270.2	1040.2	910.5	651.1	456.4
117.5°	2108.8	2253.4	2108.8	1964.1	1927.9	1616.6	1201.6	994.1	883.8	663.1	497.6
120°	2004.6	2145.1	2004.6	1864.0	1828.9	1544.5	1165.3	975.6	874.8	673.0	521.7
122.5°	1903.2	2041.8	1903.2	1764.5	1729.8	1473.8	1132.3	961.5	870.0	687.1	550.0
125°	1758.4	1886.1	1758.4	1630.8	1598.9	1381.3	1091.2	946.2	866.2	706.3	586.3
127.5°	1628.4	1736.1	1628.4	1520.6	1493.7	1306.8	1057.8	933.2	863.9	725.3	621.4
130°	1551.7	1651.2	1551.7	1452.1	1427.2	1260.9	1039.1	928.3	865.3	739.3	644.7
132.5°	1482.1	1571.2	1482.1	1392.9	1370.6	1221.8	1023.3	924.0	866.2	750.5	663.8
135°	1386.7	1463.5	1386.7	1309.9	1290.7	1165.9	999.7	916.6	865.3	762.9	686.0
137.5°	1310.2	1373.1	1310.2	1247.3	1231.6	1126.2	985.7	915.4	870.7	781.3	714.3
140°	1257.7	1316.5	1257.7	1198.9	1184.2	1093.2	971.8	911.1	871.5	792.5	733.3
142.5°	1214.3	1264.8	1214.3	1163.6	1151.0	1071.0	964.4	911.1	874.7	802.0	747.5
145°	1149.1	1187.3	1149.1	1110.7	1101.2	1035.8	948.5	905.0	874.8	814.3	769.0
147.5°	1099.0	1130.7	1099.0	1067.2	1059.4	1007.9	939.3	905.0	880.7	832.3	796.0
150°	1067.4	1093.2	1067.4	1041.7	1035.3	991.8	933.9	905.0	883.9	841.7	810.2
152.5°	1040.5	1060.0	1040.5	1021.1	1016.3	979.2	929.7	905.0	885.9	848.0	819.5
155°	1009.6	1022.4	1009.6	996.7	993.5	964.0	924.7	905.0	890.5	861.5	839.7
157.5°	985.1	994.1	985.1	976.1	973.9	950.9	920.2	905.0	895.0	875.0	860.0
160°	970.5	975.6	970.5	965.3	964.0	944.3	918.1	905.0	897.1	881.2	869.3
162.5°	960.9	965.8	960.9	955.9	954.7	938.2	916.0	905.0	899.2	887.7	879.1
165°	947.2	952.3	947.2	941.9	940.6	928.7	912.8	905.0	902.4	897.2	893.2
167.5°	937.2	939.4	937.2	935.0	934.4	926.6	916.3	911.1	908.9	904.5	901.2
170°	934.4	934.4	934.4	934.4	934.4	926.6	916.3	911.1	911.0	910.7	910.5
172.5°	927.1	925.3	927.1	929.0	929.5	923.4	915.2	911.1	911.1	911.1	911.1
175°	922.8	922.8	922.8	922.8	922.8	918.9	913.6	911.1	912.2	914.7	916.6
177.5°	918.8	916.6	918.8	920.9	921.5	918.5	914.4	912.3	913.3	915.2	916.6
180°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6



TEST NUMBER: P935088

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1063.3	1057.4	1057.4	1047.4	1043.5	1040.5	1035.5	1020.7	1016.7	1012.7	1018.6
5°	1072.3	1061.3	1053.3	1035.5	1020.7	1014.7	995.9	960.2	936.3	918.5	908.6
7.5°	1074.2	1060.3	1045.5	1017.7	982.0	966.1	908.6	843.1	825.3	809.4	799.4
10°	1072.3	1056.4	1035.5	993.9	909.6	881.8	824.3	781.6	770.7	767.7	770.7
12.5°	1065.3	1050.4	1021.7	952.2	834.2	815.3	781.6	756.9	754.8	759.8	786.5
15°	1053.3	1039.5	1005.8	896.7	792.5	778.6	754.8	745.9	756.9	791.6	871.9
17.5°	1041.5	1025.6	983.9	842.1	760.8	750.8	734.0	751.8	813.4	860.0	886.7
20°	1025.6	1006.8	959.2	802.4	737.9	729.0	721.1	801.4	848.1	864.9	879.8
22.5°	1006.8	986.9	925.5	774.7	714.2	707.3	712.2	829.2	848.1	860.0	872.9
25°	982.0	965.1	885.7	752.8	695.3	687.3	706.3	826.3	837.1	840.2	865.9
27.5°	959.2	937.3	844.1	733.0	672.6	669.5	711.2	813.4	821.3	824.3	852.0
30°	931.4	898.6	797.5	712.2	648.7	647.7	712.2	797.5	795.5	803.4	831.2
32.5°	902.6	841.2	744.9	686.4	625.9	624.9	705.3	773.7	771.7	782.6	803.4
35°	875.9	796.5	673.5	656.7	597.1	598.1	688.3	745.9	746.9	756.9	769.7
37.5°	848.1	757.8	595.1	623.9	569.3	569.3	665.6	720.1	718.1	721.1	739.0
40°	815.3	697.3	525.7	581.2	543.6	540.6	637.7	692.4	685.4	684.4	709.2
42.5°	780.6	630.8	474.2	524.7	513.8	509.9	604.0	658.6	645.7	648.7	680.4
45°	743.0	613.0	434.4	443.4	483.0	480.1	567.3	619.9	611.0	618.9	651.6
47.5°	705.3	577.3	421.5	368.0	450.3	449.3	526.7	582.2	577.3	585.2	619.9
50°	653.6	537.6	420.5	315.4	413.6	417.6	478.1	545.6	545.6	552.5	589.2
52.5°	587.2	489.0	381.9	285.6	370.9	382.9	435.4	513.8	515.8	522.8	555.4
55°	526.7	438.4	354.1	262.9	320.4	346.2	393.8	481.1	485.0	492.0	521.7
57.5°	471.1	365.0	348.2	236.0	273.8	298.6	357.1	449.3	451.3	457.3	486.0
60°	411.7	263.9	319.4	207.3	233.1	251.9	323.3	411.7	418.6	422.5	447.3
62.5°	344.2	191.5	289.6	187.4	213.3	217.2	295.6	376.0	384.8	387.8	402.7
65°	245.0	160.7	246.0	170.6	192.5	193.5	265.8	339.2	347.2	352.1	363.0
67.5°	165.6	130.9	187.4	154.7	176.6	177.6	237.0	296.6	307.5	311.5	318.4
70°	115.1	87.3	138.8	137.8	158.7	160.7	206.3	257.9	267.8	270.8	274.8
72.5°	84.3	70.4	115.1	123.9	139.8	141.9	174.6	214.3	224.2	227.2	229.1
75°	64.5	74.3	93.3	108.2	119.0	120.0	142.9	174.6	181.5	183.5	184.5
77.5°	51.6	69.4	68.4	87.3	97.2	95.2	112.1	134.9	140.8	140.8	140.8
80°	38.7	54.5	51.6	62.5	71.4	69.4	80.4	96.2	98.2	100.2	99.2
82.5°	28.8	34.7	34.7	39.6	47.6	45.7	53.5	62.5	62.5	62.5	64.5
85°	17.8	19.8	15.9	20.8	26.8	25.8	29.8	33.7	34.7	34.7	32.7
87.5°	10.9	9.0	4.9	7.9	11.9	11.9	13.9	14.9	13.9	13.9	13.9
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	66.5	24.6	66.5	108.3	118.7	166.9	231.1	263.3	230.7	165.6
95°	212.2	135.6	59.1	135.6	212.2	231.3	410.8	650.0	769.6	686.7	521.0
97.5°	237.2	169.7	102.1	169.7	237.2	254.1	553.2	952.2	1151.6	1099.3	994.6
100°	257.8	196.6	135.4	196.6	257.8	273.1	605.1	1047.7	1269.1	1272.9	1280.6
102.5°	278.0	220.9	163.7	220.9	278.0	292.3	629.0	1077.9	1302.3	1369.1	1502.5
105°	308.4	260.0	211.6	260.0	308.4	320.5	646.6	1081.3	1298.7	1448.2	1747.3
107.5°	351.1	306.0	260.8	306.0	351.1	362.4	649.9	1033.1	1224.8	1433.4	1850.6
110°	375.6	334.7	294.0	334.7	375.6	385.7	644.9	990.5	1163.3	1396.5	1862.9



TEST NUMBER: P935088

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	404.4	365.5	326.7	365.5	404.4	414.0	645.1	953.3	1107.3	1346.0	1823.4
115°	447.4	411.7	375.9	411.7	447.4	456.4	651.1	910.5	1040.2	1270.2	1730.1
117.5°	489.5	457.0	424.5	457.0	489.5	497.6	663.1	883.8	994.1	1201.6	1616.6
120°	514.0	483.4	452.8	483.4	514.0	521.7	673.0	874.8	975.6	1165.3	1544.5
122.5°	542.3	511.3	480.5	511.3	542.3	550.0	687.1	870.0	961.5	1132.3	1473.8
125°	579.3	551.1	522.9	551.1	579.3	586.3	706.3	866.2	946.2	1091.2	1381.3
127.5°	614.3	585.8	557.4	585.8	614.3	621.4	725.3	863.9	933.2	1057.8	1306.8
130°	637.1	606.5	575.8	606.5	637.1	644.7	739.3	865.3	928.3	1039.1	1260.9
132.5°	656.1	625.5	594.9	625.5	656.1	663.8	750.5	866.2	924.0	1023.3	1221.8
135°	679.0	651.1	623.2	651.1	679.0	686.0	762.9	865.3	916.6	999.7	1165.9
137.5°	707.4	679.6	652.0	679.6	707.4	714.3	781.3	870.7	915.4	985.7	1126.2
140°	727.0	701.5	676.1	701.5	727.0	733.3	792.5	871.5	911.1	971.8	1093.2
142.5°	741.6	718.1	694.5	718.1	741.6	747.5	802.0	874.7	911.1	964.4	1071.0
145°	763.9	743.3	722.8	743.3	763.9	769.0	814.3	874.8	905.0	948.5	1035.8
147.5°	791.0	771.1	751.1	771.1	791.0	796.0	832.3	880.7	905.0	939.3	1007.9
150°	805.7	787.6	769.6	787.6	805.7	810.2	841.7	883.9	905.0	933.9	991.8
152.5°	816.0	802.4	788.7	802.4	816.0	819.5	848.0	885.9	905.0	929.7	979.2
155°	837.1	827.1	817.0	827.1	837.1	839.7	861.5	890.5	905.0	924.7	964.0
157.5°	857.5	847.8	837.9	847.8	857.5	860.0	875.0	895.0	905.0	920.2	950.9
160°	867.4	859.7	852.0	859.7	867.4	869.3	881.2	897.1	905.0	918.1	944.3
162.5°	877.6	871.9	866.2	871.9	877.6	879.1	887.7	899.2	905.0	916.0	938.2
165°	891.9	886.7	881.6	886.7	891.9	893.2	897.2	902.4	905.0	912.8	928.7
167.5°	900.6	898.1	895.7	898.1	900.6	901.2	904.5	908.9	911.1	916.3	926.6
170°	909.9	907.4	905.0	907.4	909.9	910.5	910.7	911.0	911.1	916.3	926.6
172.5°	911.0	910.4	909.9	910.4	911.0	911.1	911.1	911.1	911.1	915.2	923.4
175°	916.6	916.6	916.6	916.6	916.6	916.6	914.7	912.2	911.1	913.6	918.9
177.5°	916.6	916.6	916.6	916.6	916.6	916.6	915.2	913.3	912.3	914.4	918.5
180°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6



TEST NUMBER: P935088

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1011.7	1008.8	1012.7	1001.8	1012.7	1008.8	1011.7	1018.6	1012.7	1016.7	1020.7
5°	887.8	882.8	866.9	854.0	866.9	882.8	887.8	908.6	918.5	936.3	960.2
7.5°	793.5	789.6	785.5	777.7	785.5	789.6	793.5	799.4	809.4	825.3	843.1
10°	772.7	773.7	779.6	778.6	779.6	773.7	772.7	770.7	767.7	770.7	781.6
12.5°	826.3	835.1	867.9	865.9	867.9	835.1	826.3	786.5	759.8	754.8	756.9
15°	887.8	890.8	897.7	898.6	897.7	890.8	887.8	871.9	791.6	756.9	745.9
17.5°	893.7	894.7	899.6	899.6	899.6	894.7	893.7	886.7	860.0	813.4	751.8
20°	888.8	890.8	900.6	902.6	900.6	890.8	888.8	879.8	864.9	848.1	801.4
22.5°	886.7	890.8	898.6	897.7	898.6	890.8	886.7	872.9	860.0	848.1	829.2
25°	876.8	876.8	877.8	878.8	877.8	876.8	876.8	865.9	840.2	837.1	826.3
27.5°	856.0	858.0	863.9	862.9	863.9	858.0	856.0	852.0	824.3	821.3	813.4
30°	837.1	835.1	830.2	826.3	830.2	835.1	837.1	831.2	803.4	795.5	797.5
32.5°	805.5	800.4	795.5	792.5	795.5	800.4	805.5	803.4	782.6	771.7	773.7
35°	767.7	768.7	767.7	764.7	767.7	768.7	767.7	769.7	756.9	746.9	745.9
37.5°	741.0	743.0	742.0	737.9	742.0	743.0	741.0	739.0	721.1	718.1	720.1
40°	713.2	714.2	713.2	710.2	713.2	714.2	713.2	709.2	684.4	685.4	692.4
42.5°	686.4	685.4	682.4	680.4	682.4	685.4	686.4	680.4	648.7	645.7	658.6
45°	655.7	656.7	650.7	647.7	650.7	656.7	655.7	651.6	618.9	611.0	619.9
47.5°	624.9	624.9	619.9	616.9	619.9	624.9	624.9	619.9	585.2	577.3	582.2
50°	592.2	591.2	584.2	583.2	584.2	591.2	592.2	589.2	552.5	545.6	545.6
52.5°	554.4	554.4	555.4	557.5	555.4	554.4	554.4	555.4	522.8	515.8	513.8
55°	521.7	522.8	529.7	531.7	529.7	522.8	521.7	521.7	492.0	485.0	481.1
57.5°	488.0	488.0	493.0	493.0	493.0	488.0	488.0	486.0	457.3	451.3	449.3
60°	449.3	451.3	455.2	454.3	455.2	451.3	449.3	447.3	422.5	418.6	411.7
62.5°	408.7	410.7	411.7	409.7	411.7	410.7	408.7	402.7	387.8	384.8	376.0
65°	366.0	368.0	369.0	367.0	369.0	368.0	366.0	363.0	352.1	347.2	339.2
67.5°	322.3	321.3	320.4	324.4	320.4	321.3	322.3	318.4	311.5	307.5	296.6
70°	277.8	277.8	276.8	278.7	276.8	277.8	277.8	274.8	270.8	267.8	257.9
72.5°	230.1	229.1	233.1	230.1	233.1	229.1	230.1	229.1	227.2	224.2	214.3
75°	183.5	185.5	183.5	186.5	183.5	185.5	183.5	184.5	183.5	181.5	174.6
77.5°	139.8	141.9	139.8	139.8	139.8	141.9	139.8	140.8	140.8	140.8	134.9
80°	99.2	98.2	98.2	97.2	98.2	98.2	99.2	99.2	100.2	98.2	96.2
82.5°	63.5	62.5	62.5	64.5	62.5	62.5	63.5	64.5	62.5	62.5	62.5
85°	34.7	35.7	33.7	33.7	33.7	35.7	34.7	32.7	34.7	34.7	33.7
87.5°	12.9	11.9	11.9	11.9	11.9	11.9	12.9	13.9	13.9	13.9	14.9
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	230.7	263.3	231.1
95°	396.8	382.7	326.4	270.1	326.4	382.7	396.8	521.0	686.7	769.6	650.0
97.5°	916.0	889.2	782.0	674.8	782.0	889.2	916.0	994.6	1099.3	1151.6	952.2
100°	1286.3	1254.4	1126.7	999.0	1126.7	1254.4	1286.3	1280.6	1272.9	1269.1	1047.7
102.5°	1602.5	1575.2	1465.8	1356.4	1465.8	1575.2	1602.5	1502.5	1369.1	1302.3	1077.9
105°	1971.6	1956.9	1898.1	1839.4	1898.1	1956.9	1971.6	1747.3	1448.2	1298.7	1081.3
107.5°	2163.6	2167.1	2181.4	2195.6	2181.4	2167.1	2163.6	1850.6	1433.4	1224.8	1033.1
110°	2212.8	2228.1	2289.4	2350.6	2289.4	2228.1	2212.8	1862.9	1396.5	1163.3	990.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2181.4	2204.9	2299.0	2393.0	2299.0	2204.9	2181.4	1823.4	1346.0	1107.3	953.3
115°	2075.0	2107.7	2238.0	2368.5	2238.0	2107.7	2075.0	1730.1	1270.2	1040.2	910.5
117.5°	1927.9	1964.1	2108.8	2253.4	2108.8	1964.1	1927.9	1616.6	1201.6	994.1	883.8
120°	1828.9	1864.0	2004.6	2145.1	2004.6	1864.0	1828.9	1544.5	1165.3	975.6	874.8
122.5°	1729.8	1764.5	1903.2	2041.8	1903.2	1764.5	1729.8	1473.8	1132.3	961.5	870.0
125°	1598.9	1630.8	1758.4	1886.1	1758.4	1630.8	1598.9	1381.3	1091.2	946.2	866.2
127.5°	1493.7	1520.6	1628.4	1736.1	1628.4	1520.6	1493.7	1306.8	1057.8	933.2	863.9
130°	1427.2	1452.1	1551.7	1651.2	1551.7	1452.1	1427.2	1260.9	1039.1	928.3	865.3
132.5°	1370.6	1392.9	1482.1	1571.2	1482.1	1392.9	1370.6	1221.8	1023.3	924.0	866.2
135°	1290.7	1309.9	1386.7	1463.5	1386.7	1309.9	1290.7	1165.9	999.7	916.6	865.3
137.5°	1231.6	1247.3	1310.2	1373.1	1310.2	1247.3	1231.6	1126.2	985.7	915.4	870.7
140°	1184.2	1198.9	1257.7	1316.5	1257.7	1198.9	1184.2	1093.2	971.8	911.1	871.5
142.5°	1151.0	1163.6	1214.3	1264.8	1214.3	1163.6	1151.0	1071.0	964.4	911.1	874.7
145°	1101.2	1110.7	1149.1	1187.3	1149.1	1110.7	1101.2	1035.8	948.5	905.0	874.8
147.5°	1059.4	1067.2	1099.0	1130.7	1099.0	1067.2	1059.4	1007.9	939.3	905.0	880.7
150°	1035.3	1041.7	1067.4	1093.2	1067.4	1041.7	1035.3	991.8	933.9	905.0	883.9
152.5°	1016.3	1021.1	1040.5	1060.0	1040.5	1021.1	1016.3	979.2	929.7	905.0	885.9
155°	993.5	996.7	1009.6	1022.4	1009.6	996.7	993.5	964.0	924.7	905.0	890.5
157.5°	973.9	976.1	985.1	994.1	985.1	976.1	973.9	950.9	920.2	905.0	895.0
160°	964.0	965.3	970.5	975.6	970.5	965.3	964.0	944.3	918.1	905.0	897.1
162.5°	954.7	955.9	960.9	965.8	960.9	955.9	954.7	938.2	916.0	905.0	899.2
165°	940.6	941.9	947.2	952.3	947.2	941.9	940.6	928.7	912.8	905.0	902.4
167.5°	934.4	935.0	937.2	939.4	937.2	935.0	934.4	926.6	916.3	911.1	908.9
170°	934.4	934.4	934.4	934.4	934.4	934.4	934.4	926.6	916.3	911.1	911.0
172.5°	929.5	929.0	927.1	925.3	927.1	929.0	929.5	923.4	915.2	911.1	911.1
175°	922.8	922.8	922.8	922.8	922.8	922.8	922.8	918.9	913.6	911.1	912.2
177.5°	921.5	920.9	918.8	916.6	918.8	920.9	921.5	918.5	914.4	912.3	913.3
180°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1035.5	1040.5	1043.5	1047.4	1057.4
5°	995.9	1014.7	1020.7	1035.5	1053.3
7.5°	908.6	966.1	982.0	1017.7	1045.5
10°	824.3	881.8	909.6	993.9	1035.5
12.5°	781.6	815.3	834.2	952.2	1021.7
15°	754.8	778.6	792.5	896.7	1005.8
17.5°	734.0	750.8	760.8	842.1	983.9
20°	721.1	729.0	737.9	802.4	959.2
22.5°	712.2	707.3	714.2	774.7	925.5
25°	706.3	687.3	695.3	752.8	885.7
27.5°	711.2	669.5	672.6	733.0	844.1
30°	712.2	647.7	648.7	712.2	797.5
32.5°	705.3	624.9	625.9	686.4	744.9
35°	688.3	598.1	597.1	656.7	673.5
37.5°	665.6	569.3	569.3	623.9	595.1
40°	637.7	540.6	543.6	581.2	525.7
42.5°	604.0	509.9	513.8	524.7	474.2
45°	567.3	480.1	483.0	443.4	434.4
47.5°	526.7	449.3	450.3	368.0	421.5
50°	478.1	417.6	413.6	315.4	420.5
52.5°	435.4	382.9	370.9	285.6	381.9
55°	393.8	346.2	320.4	262.9	354.1
57.5°	357.1	298.6	273.8	236.0	348.2
60°	323.3	251.9	233.1	207.3	319.4
62.5°	295.6	217.2	213.3	187.4	289.6
65°	265.8	193.5	192.5	170.6	246.0
67.5°	237.0	177.6	176.6	154.7	187.4
70°	206.3	160.7	158.7	137.8	138.8
72.5°	174.6	141.9	139.8	123.9	115.1
75°	142.9	120.0	119.0	108.2	93.3
77.5°	112.1	95.2	97.2	87.3	68.4
80°	80.4	69.4	71.4	62.5	51.6
82.5°	53.5	45.7	47.6	39.6	34.7
85°	29.8	25.8	26.8	20.8	15.9
87.5°	13.9	11.9	11.9	7.9	4.9
90°	27.1	17.3	16.0	11.0	6.1
92.5°	166.9	118.7	108.3	66.5	24.6
95°	410.8	231.3	212.2	135.6	59.1
97.5°	553.2	254.1	237.2	169.7	102.1
100°	605.1	273.1	257.8	196.6	135.4
102.5°	629.0	292.3	278.0	220.9	163.7
105°	646.6	320.5	308.4	260.0	211.6
107.5°	649.9	362.4	351.1	306.0	260.8
110°	644.9	385.7	375.6	334.7	294.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	645.1	414.0	404.4	365.5	326.7
115°	651.1	456.4	447.4	411.7	375.9
117.5°	663.1	497.6	489.5	457.0	424.5
120°	673.0	521.7	514.0	483.4	452.8
122.5°	687.1	550.0	542.3	511.3	480.5
125°	706.3	586.3	579.3	551.1	522.9
127.5°	725.3	621.4	614.3	585.8	557.4
130°	739.3	644.7	637.1	606.5	575.8
132.5°	750.5	663.8	656.1	625.5	594.9
135°	762.9	686.0	679.0	651.1	623.2
137.5°	781.3	714.3	707.4	679.6	652.0
140°	792.5	733.3	727.0	701.5	676.1
142.5°	802.0	747.5	741.6	718.1	694.5
145°	814.3	769.0	763.9	743.3	722.8
147.5°	832.3	796.0	791.0	771.1	751.1
150°	841.7	810.2	805.7	787.6	769.6
152.5°	848.0	819.5	816.0	802.4	788.7
155°	861.5	839.7	837.1	827.1	817.0
157.5°	875.0	860.0	857.5	847.8	837.9
160°	881.2	869.3	867.4	859.7	852.0
162.5°	887.7	879.1	877.6	871.9	866.2
165°	897.2	893.2	891.9	886.7	881.6
167.5°	904.5	901.2	900.6	898.1	895.7
170°	910.7	910.5	909.9	907.4	905.0
172.5°	911.1	911.1	911.0	910.4	909.9
175°	914.7	916.6	916.6	916.6	916.6
177.5°	915.2	916.6	916.6	916.6	916.6
180°	916.6	916.6	916.6	916.6	916.6



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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	9.27	9.99	10.38	11.09	12.60	12.10	12.82	13.20	13.91	15.43
	3H	9.74	10.38	10.85	11.49	13.02	13.43	14.07	14.54	15.18	16.71
	4H	9.92	10.53	11.04	11.64	13.18	13.87	14.48	14.99	15.58	17.12
	6H	10.04	10.59	11.16	11.71	13.25	14.14	14.70	15.27	15.81	17.36
	8H	10.03	10.56	11.16	11.69	13.23	14.21	14.75	15.35	15.87	17.41
	12H	10.00	10.50	11.14	11.62	13.19	14.25	14.75	15.38	15.87	17.44
4H	2H	10.29	10.90	11.42	12.00	13.54	12.49	13.10	13.62	14.21	15.74
	3H	11.30	11.81	12.43	12.94	14.49	13.98	14.49	15.11	15.62	17.17
	4H	11.57	12.04	12.71	13.16	14.73	14.50	14.97	15.64	16.09	17.66
	6H	11.69	12.09	12.83	13.23	14.79	14.86	15.26	16.00	16.40	17.96
	8H	11.69	12.06	12.83	13.20	14.78	14.96	15.33	16.10	16.47	18.05
	12H	11.65	11.99	12.81	13.14	14.72	15.01	15.35	16.17	16.49	18.08
8H	4H	12.01	12.38	13.15	13.52	15.10	14.61	14.99	15.76	16.12	17.70
	6H	12.27	12.57	13.43	13.75	15.33	15.04	15.35	16.21	16.53	18.10
	8H	12.31	12.58	13.48	13.74	15.33	15.19	15.46	16.36	16.62	18.21
	12H	12.29	12.52	13.46	13.68	15.31	15.28	15.52	16.46	16.68	18.30
12H	4H	12.01	12.35	13.17	13.50	15.08	14.57	14.91	15.73	16.06	17.64
	6H	12.33	12.59	13.50	13.75	15.35	15.04	15.31	16.21	16.47	18.06
	8H	12.39	12.62	13.56	13.78	15.41	15.19	15.43	16.37	16.58	18.21