

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: P934556

Luminaire Tested: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

**Test Information**

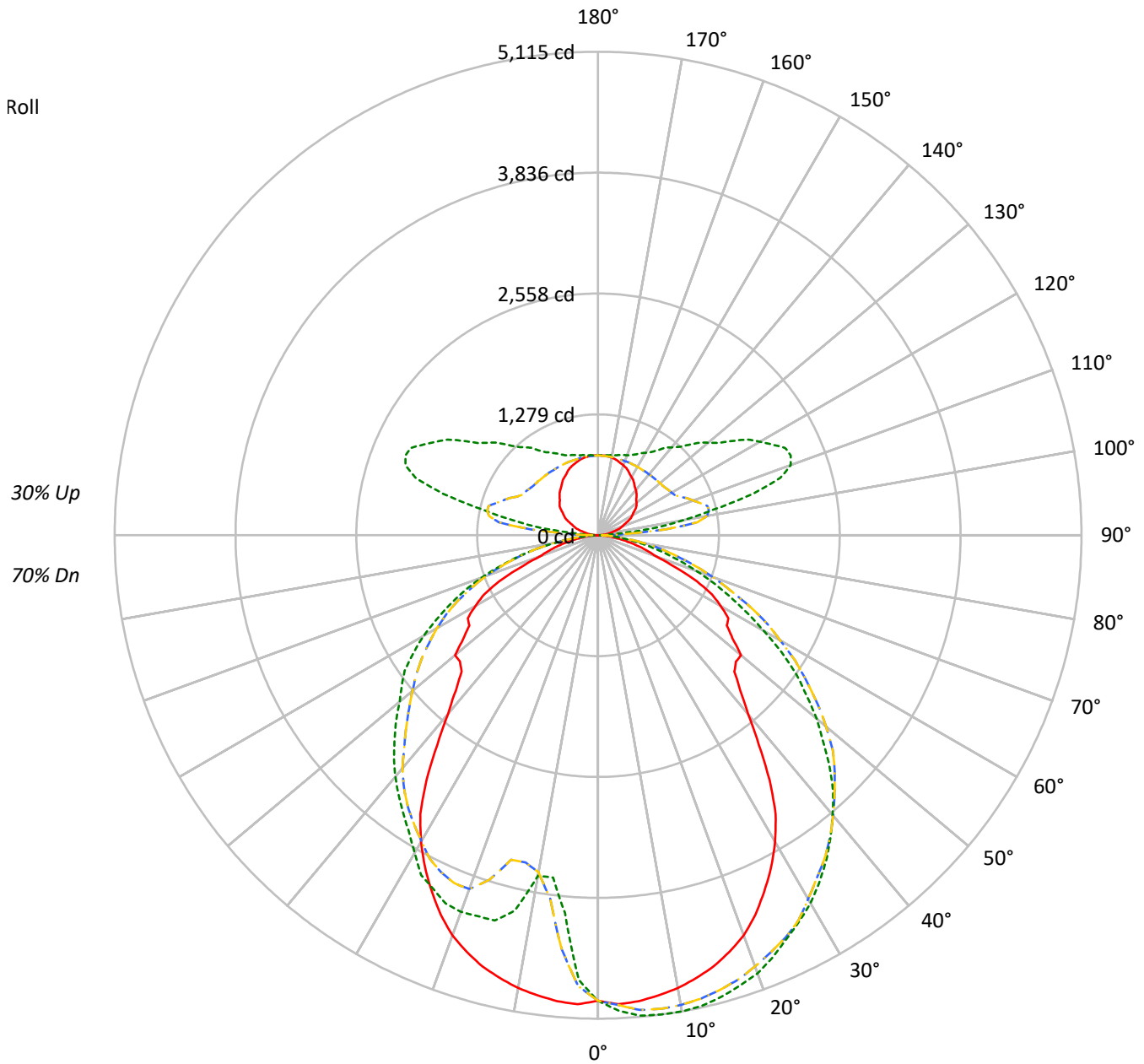
Test Method: LM-79-2019  
Report Number: P934556  
REPORT IS A COMBINATION OF REPORTS P933701 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18252.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 168  
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-050U-125D-93050-1D-UNV-STD-W-12-5000K

### 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	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	18

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

	0°	90°	180°	270°
0°	15232	15232	15232	15232
5°	15351	15375	15351	12090
10°	15254	15145	15254	10828
15°	15093	14817	15093	12373
20°	14784	14428	14784	12399
25°	14143	13862	14143	12136
30°	13314	13391	13314	11559
35°	11875	12796	11875	10925
40°	9901	12095	9901	10446
45°	8852	11274	8852	9895
50°	9412	10295	9412	9342
55°	8863	9242	8863	9023
60°	9148	7849	9148	8264
65°	8308	6488	8308	7252
70°	5766	5171	5766	6079
75°	5075	3822	5075	4577
80°	4121	2527	4121	2752
85°	2414	1339	2414	1138

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 13558 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.5	2.4
10°-20°	1262.1	6.9
20°-30°	1950.9	10.7
30°-40°	2329.0	12.8
40°-50°	2342.7	12.8
50°-60°	2038.4	11.2
60°-70°	1445.3	7.9
70°-80°	764.6	4.2
80°-90°	193.7	1.1
90°-100°	412.1	2.3
100°-110°	1083.5	5.9
110°-120°	1123.5	6.2
120°-130°	901.2	4.9
130°-140°	707.1	3.9
140°-150°	542.7	3.0
150°-160°	390.9	2.1
160°-170°	239.1	1.3
170°-180°	80.8	0.4
0°-30°	3657.5	20.0
0°-40°	5986.5	32.8
0°-60°	10367.6	56.8
0°-90°	12771.1	70.0
90°-120°	2619.1	14.3
90°-150°	4770.1	26.1
90°-180°	5481.0	30.0
0°-180°	18252.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4924	4924	4924	4924	4924	
5°	4948	5101	4948	4011	4948	469
15°	4724	5055	4724	4221	4724	1329
25°	4160	4715	4160	4128	4160	1910
35°	3163	4207	3163	3592	3163	1957
45°	2040	3466	2040	3042	2040	1635
55°	1663	2558	1663	2497	1663	1528
65°	1155	1542	1155	1724	1155	1104
75°	438	731	438	876	438	460
85°	74	186	74	158	74	101
90°	6	22	6	22	6	8
95°	54	249	54	249	54	60
105°	195	1697	195	1697	195	207
115°	347	2185	347	2185	347	342
125°	482	1740	482	1740	482	428
135°	575	1350	575	1350	575	445
145°	667	1095	667	1095	667	418
155°	754	943	754	943	754	346
165°	813	878	813	878	813	229
175°	846	851	846	851	846	80
180°	846	846	846	846	846	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4
2.5°	4966.3	4966.3	4994.2	5003.5	5003.5	4989.5	4975.6	4989.5	5031.4	5045.5	5040.8
5°	4947.6	4984.9	5036.1	5045.5	5054.8	5050.1	5040.8	5050.1	5096.7	5106.1	5110.6
7.5°	4910.3	4980.2	5045.5	5059.4	5073.4	5059.4	5054.8	5064.1	5110.6	5120.0	5120.0
10°	4863.8	4961.6	5036.1	5045.5	5059.4	5045.5	5045.5	5064.1	5110.6	5120.0	5124.7
12.5°	4798.5	4933.6	5003.5	5012.8	5031.4	5026.8	5022.2	5040.8	5087.3	5096.7	5096.7
15°	4724.0	4882.4	4947.6	4956.9	4989.5	4980.2	4980.2	4998.9	5050.1	5064.1	5059.4
17.5°	4621.5	4817.2	4891.7	4905.7	4928.9	4924.4	4928.9	4947.6	4994.2	5003.5	5008.1
20°	4505.1	4728.6	4817.2	4831.1	4854.4	4854.4	4854.4	4877.7	4924.4	4943.0	4943.0
22.5°	4346.7	4635.5	4728.6	4738.0	4766.0	4766.0	4775.2	4807.8	4849.7	4854.4	4854.4
25°	4160.3	4533.0	4612.2	4640.1	4668.1	4682.1	4696.0	4714.7	4728.6	4724.0	4728.6
27.5°	3964.6	4402.5	4505.1	4523.7	4560.9	4574.9	4593.5	4598.2	4602.9	4616.8	4607.6
30°	3745.7	4220.8	4374.6	4393.2	4453.8	4463.1	4444.5	4453.8	4477.1	4486.4	4495.7
32.5°	3498.7	3950.7	4239.5	4281.4	4337.3	4309.4	4304.7	4318.7	4355.9	4355.9	4365.3
35°	3163.3	3741.0	4113.7	4150.9	4192.9	4160.3	4178.9	4183.6	4206.9	4220.8	4216.2
37.5°	2795.3	3559.3	3983.3	4011.2	4043.8	4001.9	4029.9	4043.8	4062.5	4053.1	4053.1
40°	2469.2	3275.1	3829.5	3848.2	3876.1	3843.5	3871.5	3880.7	3890.1	3880.7	3876.1
42.5°	2226.9	2963.0	3666.5	3689.8	3671.1	3694.4	3703.7	3722.4	3708.4	3689.8	3689.8
45°	2040.5	2879.1	3489.4	3517.3	3489.4	3526.7	3540.7	3540.7	3498.7	3489.4	3484.8
47.5°	1980.0	2711.4	3312.4	3312.4	3298.4	3345.0	3368.3	3335.6	3293.8	3279.8	3279.8
50°	1975.3	2525.0	3070.1	3051.5	3116.7	3172.7	3149.3	3116.7	3084.1	3032.9	3032.9
52.5°	1793.6	2296.8	2757.9	2827.9	2930.4	2963.0	2925.7	2893.1	2837.1	2813.9	2795.3
55°	1663.1	2059.2	2473.8	2613.6	2720.7	2762.6	2692.8	2660.1	2576.3	2562.3	2553.0
57.5°	1635.2	1714.4	2212.9	2390.0	2520.4	2515.8	2473.8	2413.3	2343.3	2329.4	2324.7
60°	1500.2	1239.3	1933.4	2143.0	2278.2	2264.1	2226.9	2171.0	2105.7	2096.5	2087.1
62.5°	1360.4	899.2	1616.6	1854.2	2045.2	2040.5	2007.9	1924.0	1877.5	1854.2	1835.6
65°	1155.4	754.7	1150.7	1542.1	1816.9	1826.2	1756.4	1695.8	1644.5	1616.6	1611.9
67.5°	880.5	614.9	778.0	1285.8	1598.0	1588.6	1500.2	1472.2	1406.9	1393.0	1365.0
70°	652.2	409.9	540.4	1043.6	1383.6	1360.4	1290.5	1257.9	1197.3	1164.6	1146.0
72.5°	540.4	330.7	396.0	810.6	1164.6	1136.7	1076.2	1038.9	987.6	959.7	941.1
75°	437.9	349.4	302.8	601.0	945.7	927.1	871.2	833.9	792.0	754.7	759.4
77.5°	321.5	326.1	242.3	442.6	750.0	722.1	689.5	642.9	624.3	587.0	587.0
80°	242.3	256.2	181.7	302.8	540.4	540.4	512.4	479.9	447.3	428.6	428.6
82.5°	163.1	163.1	135.1	191.0	368.1	354.0	335.4	326.1	307.5	298.2	298.2
85°	74.5	93.1	83.9	116.5	200.3	209.6	209.6	200.3	195.7	186.4	191.0
87.5°	23.3	41.9	51.2	65.2	102.5	107.2	111.8	111.8	111.8	116.5	116.5
90°	5.7	10.2	14.8	15.9	25.0	37.1	43.1	38.4	28.7	21.6	21.6
92.5°	22.7	61.2	99.8	109.5	153.9	213.2	242.8	212.8	152.8	107.8	103.5
95°	54.5	125.1	195.7	213.4	378.8	599.5	709.8	633.4	480.6	366.0	352.9
97.5°	94.2	156.5	218.8	234.4	510.3	878.2	1062.2	1014.0	917.3	844.9	820.2
100°	124.8	181.3	237.8	251.9	558.1	966.4	1170.6	1174.1	1181.2	1186.5	1157.0
102.5°	151.0	203.6	256.3	269.5	580.1	994.2	1201.3	1262.7	1385.8	1478.1	1452.9
105°	195.2	239.8	284.4	295.6	596.3	997.4	1197.9	1335.8	1611.7	1818.6	1805.0
107.5°	240.6	282.2	323.9	334.2	599.4	953.0	1129.8	1322.2	1707.1	1995.7	1999.0
110°	271.3	308.8	346.4	355.8	594.8	913.7	1073.1	1288.2	1718.4	2041.0	2055.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	301.3	337.1	372.9	381.9	595.0	879.2	1021.4	1241.5	1681.9	2012.1	2033.8
115°	346.7	379.7	412.8	421.0	600.5	839.9	959.5	1171.6	1595.8	1913.9	1944.0
117.5°	391.5	421.5	451.5	459.0	611.6	815.2	917.0	1108.4	1491.2	1778.3	1811.6
120°	417.6	445.9	474.1	481.1	620.7	806.9	900.0	1074.9	1424.6	1687.0	1719.4
122.5°	443.2	471.7	500.1	507.3	633.9	802.5	886.9	1044.3	1359.4	1595.6	1627.5
125°	482.3	508.3	534.3	540.8	651.5	798.9	872.7	1006.5	1274.0	1474.7	1504.2
127.5°	514.1	540.3	566.6	573.1	669.0	796.8	860.8	975.7	1205.4	1377.7	1402.6
130°	531.2	559.4	587.6	594.7	681.8	798.1	856.3	958.5	1163.1	1316.4	1339.4
132.5°	548.7	577.0	605.2	612.3	692.3	798.9	852.3	943.8	1126.9	1264.2	1284.8
135°	574.8	600.5	626.2	632.7	703.6	798.2	845.5	922.2	1075.5	1190.5	1208.2
137.5°	601.5	627.0	652.5	658.8	720.7	803.2	844.4	909.2	1038.8	1136.0	1150.5
140°	623.6	647.1	670.5	676.3	731.0	803.9	840.3	896.3	1008.4	1092.3	1105.9
142.5°	640.6	662.3	684.0	689.5	739.8	806.8	840.3	889.5	987.9	1061.7	1073.3
145°	666.7	685.6	704.5	709.3	751.1	806.8	834.7	874.9	955.4	1015.7	1024.5
147.5°	692.9	711.2	729.7	734.2	767.7	812.4	834.7	866.4	929.7	977.2	984.5
150°	709.8	726.4	743.1	747.3	776.5	815.3	834.7	861.4	914.9	955.0	960.9
152.5°	727.5	740.0	752.7	755.8	782.2	817.2	834.7	857.6	903.2	937.4	941.9
155°	753.5	762.9	772.2	774.5	794.6	821.3	834.7	852.9	889.2	916.4	919.3
157.5°	772.9	782.0	791.0	793.3	807.1	825.6	834.7	848.9	877.0	898.2	900.4
160°	785.9	793.0	800.0	801.8	812.8	827.4	834.7	846.8	871.0	889.2	890.3
162.5°	798.9	804.3	809.6	810.9	818.9	829.4	834.7	844.9	865.3	880.6	881.7
165°	813.2	817.9	822.7	823.9	827.5	832.3	834.7	842.1	856.7	867.6	868.8
167.5°	826.2	828.4	830.7	831.2	834.3	838.3	840.3	845.1	854.7	861.9	862.4
170°	834.7	836.9	839.2	839.8	840.0	840.2	840.3	845.1	854.7	861.9	861.9
172.5°	839.2	839.7	840.2	840.3	840.3	840.3	840.3	844.1	851.7	857.4	856.9
175°	845.5	845.5	845.5	845.5	843.7	841.4	840.3	842.7	847.6	851.2	851.2
177.5°	845.5	845.5	845.5	845.5	844.2	842.4	841.5	843.5	847.2	850.1	849.5
180°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4
2.5°	5050.1	5036.1	5050.1	5040.8	5045.5	5031.4	4989.5	4975.6	4989.5	5003.5	5003.5
5°	5110.6	5101.4	5110.6	5110.6	5106.1	5096.7	5050.1	5040.8	5050.1	5054.8	5045.5
7.5°	5129.3	5115.3	5129.3	5120.0	5120.0	5110.6	5064.1	5054.8	5059.4	5073.4	5059.4
10°	5129.3	5115.3	5129.3	5124.7	5120.0	5110.6	5064.1	5045.5	5045.5	5059.4	5045.5
12.5°	5106.1	5096.7	5106.1	5096.7	5096.7	5087.3	5040.8	5022.2	5026.8	5031.4	5012.8
15°	5068.7	5054.8	5068.7	5059.4	5064.1	5050.1	4998.9	4980.2	4980.2	4989.5	4956.9
17.5°	5012.8	4994.2	5012.8	5008.1	5003.5	4994.2	4947.6	4928.9	4924.4	4928.9	4905.7
20°	4947.6	4933.6	4947.6	4943.0	4943.0	4924.4	4877.7	4854.4	4854.4	4854.4	4831.1
22.5°	4845.2	4831.1	4845.2	4854.4	4854.4	4849.7	4807.8	4775.2	4766.0	4766.0	4738.0
25°	4728.6	4714.7	4728.6	4728.6	4724.0	4728.6	4714.7	4696.0	4682.1	4668.1	4640.1
27.5°	4616.8	4607.6	4616.8	4607.6	4616.8	4602.9	4598.2	4593.5	4574.9	4560.9	4523.7
30°	4505.1	4495.7	4505.1	4495.7	4486.4	4477.1	4453.8	4444.5	4463.1	4453.8	4393.2
32.5°	4365.3	4355.9	4365.3	4365.3	4355.9	4355.9	4318.7	4304.7	4309.4	4337.3	4281.4
35°	4220.8	4206.9	4220.8	4216.2	4220.8	4206.9	4183.6	4178.9	4160.3	4192.9	4150.9
37.5°	4053.1	4039.1	4053.1	4053.1	4053.1	4062.5	4043.8	4029.9	4001.9	4043.8	4011.2
40°	3880.7	3862.1	3880.7	3876.1	3880.7	3890.1	3880.7	3871.5	3843.5	3876.1	3848.2
42.5°	3685.1	3680.4	3685.1	3689.8	3689.8	3708.4	3722.4	3703.7	3694.4	3671.1	3689.8
45°	3475.4	3466.1	3475.4	3484.8	3489.4	3498.7	3540.7	3540.7	3526.7	3489.4	3517.3
47.5°	3251.9	3228.5	3251.9	3279.8	3279.8	3293.8	3335.6	3368.3	3345.0	3298.4	3312.4
50°	3014.3	3018.8	3014.3	3032.9	3032.9	3084.1	3116.7	3149.3	3172.7	3116.7	3051.5
52.5°	2781.3	2776.7	2781.3	2795.3	2813.9	2837.1	2893.1	2925.7	2963.0	2930.4	2827.9
55°	2548.3	2557.7	2548.3	2553.0	2562.3	2576.3	2660.1	2692.8	2762.6	2720.7	2613.6
57.5°	2315.4	2301.4	2315.4	2324.7	2329.4	2343.3	2413.3	2473.8	2515.8	2520.4	2390.0
60°	2045.2	2026.5	2045.2	2087.1	2096.5	2105.7	2171.0	2226.9	2264.1	2278.2	2143.0
62.5°	1807.6	1775.0	1807.6	1835.6	1854.2	1877.5	1924.0	2007.9	2040.5	2045.2	1854.2
65°	1556.0	1542.1	1556.0	1611.9	1616.6	1644.5	1695.8	1756.4	1826.2	1816.9	1542.1
67.5°	1327.7	1327.7	1327.7	1365.0	1393.0	1406.9	1472.2	1500.2	1588.6	1598.0	1285.8
70°	1118.1	1113.4	1118.1	1146.0	1164.6	1197.3	1257.9	1290.5	1360.4	1383.6	1043.6
72.5°	917.8	913.1	917.8	941.1	959.7	987.6	1038.9	1076.2	1136.7	1164.6	810.6
75°	740.8	731.4	740.8	759.4	754.7	792.0	833.9	871.2	927.1	945.7	601.0
77.5°	568.3	568.3	568.3	587.0	587.0	624.3	642.9	689.5	722.1	750.0	442.6
80°	424.0	419.3	424.0	428.6	428.6	447.3	479.9	512.4	540.4	540.4	302.8
82.5°	298.2	288.8	298.2	298.2	298.2	307.5	326.1	335.4	354.0	368.1	191.0
85°	186.4	186.4	186.4	191.0	186.4	195.7	200.3	209.6	209.6	200.3	116.5
87.5°	121.1	116.5	121.1	116.5	116.5	111.8	111.8	111.8	107.2	102.5	65.2
90°	21.6	21.6	21.6	21.6	21.6	28.7	38.4	43.1	37.1	25.0	15.9
92.5°	86.4	69.2	86.4	103.5	107.8	152.8	212.8	242.8	213.2	153.9	109.5
95°	301.0	249.1	301.0	352.9	366.0	480.6	633.4	709.8	599.5	378.8	213.4
97.5°	721.3	622.5	721.3	820.2	844.9	917.3	1014.0	1062.2	878.2	510.3	234.4
100°	1039.3	921.5	1039.3	1157.0	1186.5	1181.2	1174.1	1170.6	966.4	558.1	251.9
102.5°	1352.0	1251.2	1352.0	1452.9	1478.1	1385.8	1262.7	1201.3	994.2	580.1	269.5
105°	1750.9	1696.6	1750.9	1805.0	1818.6	1611.7	1335.8	1197.9	997.4	596.3	295.6
107.5°	2012.0	2025.2	2012.0	1999.0	1995.7	1707.1	1322.2	1129.8	953.0	599.4	334.2
110°	2111.6	2168.1	2111.6	2055.2	2041.0	1718.4	1288.2	1073.1	913.7	594.8	355.8





TEST NUMBER: P934556

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2120.6	2207.3	2120.6	2033.8	2012.1	1681.9	1241.5	1021.4	879.2	595.0	381.9
115°	2064.4	2184.7	2064.4	1944.0	1913.9	1595.8	1171.6	959.5	839.9	600.5	421.0
117.5°	1945.1	2078.5	1945.1	1811.6	1778.3	1491.2	1108.4	917.0	815.2	611.6	459.0
120°	1849.1	1978.6	1849.1	1719.4	1687.0	1424.6	1074.9	900.0	806.9	620.7	481.1
122.5°	1755.5	1883.3	1755.5	1627.5	1595.6	1359.4	1044.3	886.9	802.5	633.9	507.3
125°	1621.9	1739.8	1621.9	1504.2	1474.7	1274.0	1006.5	872.7	798.9	651.5	540.8
127.5°	1501.9	1601.3	1501.9	1402.6	1377.7	1205.4	975.7	860.8	796.8	669.0	573.1
130°	1431.2	1523.0	1431.2	1339.4	1316.4	1163.1	958.5	856.3	798.1	681.8	594.7
132.5°	1367.0	1449.2	1367.0	1284.8	1264.2	1126.9	943.8	852.3	798.9	692.3	612.3
135°	1279.1	1349.9	1279.1	1208.2	1190.5	1075.5	922.2	845.5	798.2	703.6	632.7
137.5°	1208.5	1266.5	1208.5	1150.5	1136.0	1038.8	909.2	844.4	803.2	720.7	658.8
140°	1160.1	1214.3	1160.1	1105.9	1092.3	1008.4	896.3	840.3	803.9	731.0	676.3
142.5°	1120.0	1166.7	1120.0	1073.3	1061.7	987.9	889.5	840.3	806.8	739.8	689.5
145°	1059.8	1095.2	1059.8	1024.5	1015.7	955.4	874.9	834.7	806.8	751.1	709.3
147.5°	1013.7	1043.0	1013.7	984.5	977.2	929.7	866.4	834.7	812.4	767.7	734.2
150°	984.6	1008.4	984.6	960.9	955.0	914.9	861.4	834.7	815.3	776.5	747.3
152.5°	959.8	977.7	959.8	941.9	937.4	903.2	857.6	834.7	817.2	782.2	755.8
155°	931.3	943.1	931.3	919.3	916.4	889.2	852.9	834.7	821.3	794.6	774.5
157.5°	908.6	917.0	908.6	900.4	898.2	877.0	848.9	834.7	825.6	807.1	793.3
160°	895.2	900.0	895.2	890.3	889.2	871.0	846.8	834.7	827.4	812.8	801.8
162.5°	886.3	890.9	886.3	881.7	880.6	865.3	844.9	834.7	829.4	818.9	810.9
165°	873.6	878.4	873.6	868.8	867.6	856.7	842.1	834.7	832.3	827.5	823.9
167.5°	864.5	866.5	864.5	862.4	861.9	854.7	845.1	840.3	838.3	834.3	831.2
170°	861.9	861.9	861.9	861.9	861.9	854.7	845.1	840.3	840.2	840.0	839.8
172.5°	855.2	853.5	855.2	856.9	857.4	851.7	844.1	840.3	840.3	840.3	840.3
175°	851.2	851.2	851.2	851.2	851.2	847.6	842.7	840.3	841.4	843.7	845.5
177.5°	847.5	845.5	847.5	849.5	850.1	847.2	843.5	841.5	842.4	844.2	845.5
180°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5



TEST NUMBER: P934556

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4
2.5°	4994.2	4966.3	4966.3	4919.7	4901.0	4887.1	4863.8	4793.9	4775.2	4756.6	4784.6
5°	5036.1	4984.9	4947.6	4863.8	4793.9	4766.0	4677.4	4509.6	4397.9	4314.0	4267.5
7.5°	5045.5	4980.2	4910.3	4779.9	4612.2	4537.6	4267.5	3959.9	3876.1	3801.6	3754.9
10°	5036.1	4961.6	4863.8	4668.1	4272.1	4141.6	3871.5	3671.1	3619.8	3605.9	3619.8
12.5°	5003.5	4933.6	4798.5	4472.4	3918.0	3829.5	3671.1	3554.6	3545.3	3568.6	3694.4
15°	4947.6	4882.4	4724.0	4211.5	3722.4	3657.1	3545.3	3503.4	3554.6	3717.7	4095.0
17.5°	4891.7	4817.2	4621.5	3955.3	3573.3	3526.7	3447.5	3531.4	3820.2	4039.1	4165.0
20°	4817.2	4728.6	4505.1	3769.0	3466.1	3424.2	3386.9	3764.3	3983.3	4062.5	4132.3
22.5°	4728.6	4635.5	4346.7	3638.5	3354.4	3321.7	3345.0	3894.7	3983.3	4039.1	4099.7
25°	4612.2	4533.0	4160.3	3536.0	3265.8	3228.5	3317.0	3880.7	3932.0	3946.0	4067.1
27.5°	4505.1	4402.5	3964.6	3442.8	3158.6	3144.7	3340.3	3820.2	3857.4	3871.5	4001.9
30°	4374.6	4220.8	3745.7	3345.0	3046.8	3042.2	3345.0	3745.7	3736.3	3773.6	3904.1
32.5°	4239.5	3950.7	3498.7	3223.9	2939.7	2935.1	3312.4	3633.8	3624.5	3675.7	3773.6
35°	4113.7	3741.0	3163.3	3084.1	2804.6	2809.2	3233.2	3503.4	3508.1	3554.6	3615.2
37.5°	3983.3	3559.3	2795.3	2930.4	2674.2	2674.2	3126.0	3382.3	3373.0	3386.9	3470.8
40°	3829.5	3275.1	2469.2	2730.1	2553.0	2539.0	2995.6	3251.9	3219.2	3214.6	3331.0
42.5°	3666.5	2963.0	2226.9	2464.5	2413.3	2394.6	2837.1	3093.5	3032.9	3046.8	3195.9
45°	3489.4	2879.1	2040.5	2082.4	2268.8	2254.9	2664.8	2911.8	2869.8	2907.1	3060.8
47.5°	3312.4	2711.4	1980.0	1728.4	2115.1	2110.4	2473.8	2734.7	2711.4	2748.7	2911.8
50°	3070.1	2525.0	1975.3	1481.5	1942.7	1961.3	2245.5	2562.3	2562.3	2595.0	2767.3
52.5°	2757.9	2296.8	1793.6	1341.8	1742.3	1798.3	2045.2	2413.3	2422.5	2455.2	2608.9
55°	2473.8	2059.2	1663.1	1234.6	1504.7	1625.9	1849.5	2259.5	2278.2	2310.8	2450.5
57.5°	2212.9	1714.4	1635.2	1108.8	1285.8	1402.3	1677.2	2110.4	2119.8	2147.7	2282.8
60°	1933.4	1239.3	1500.2	973.7	1094.8	1183.4	1518.8	1933.4	1966.0	1984.6	2101.1
62.5°	1616.6	899.2	1360.4	880.5	1001.7	1020.3	1388.3	1765.6	1807.6	1821.5	1891.5
65°	1150.7	754.7	1155.4	801.3	903.8	908.4	1248.5	1593.3	1630.6	1653.9	1705.1
67.5°	778.0	614.9	880.5	726.7	829.2	833.9	1113.4	1393.0	1444.2	1462.9	1495.5
70°	540.4	409.9	652.2	647.5	745.4	754.7	969.0	1211.3	1257.9	1271.8	1290.5
72.5°	396.0	330.7	540.4	582.4	656.9	666.2	820.0	1006.3	1052.9	1066.8	1076.2
75°	302.8	349.4	437.9	507.8	559.1	563.7	670.8	820.0	852.5	861.9	866.5
77.5°	242.3	326.1	321.5	409.9	456.6	447.3	526.5	633.6	661.6	661.6	661.6
80°	181.7	256.2	242.3	293.5	335.4	326.1	377.4	451.9	461.2	470.5	465.9
82.5°	135.1	163.1	163.1	186.4	223.6	214.3	251.5	293.5	293.5	293.5	302.8
85°	83.9	93.1	74.5	97.8	125.8	121.1	139.8	158.4	163.1	163.1	153.7
87.5°	51.2	41.9	23.3	37.3	55.9	55.9	65.2	69.8	65.2	65.2	65.2
90°	14.8	10.2	5.7	10.2	14.8	15.9	25.0	37.1	43.1	38.4	28.7
92.5°	99.8	61.2	22.7	61.2	99.8	109.5	153.9	213.2	242.8	212.8	152.8
95°	195.7	125.1	54.5	125.1	195.7	213.4	378.8	599.5	709.8	633.4	480.6
97.5°	218.8	156.5	94.2	156.5	218.8	234.4	510.3	878.2	1062.2	1014.0	917.3
100°	237.8	181.3	124.8	181.3	237.8	251.9	558.1	966.4	1170.6	1174.1	1181.2
102.5°	256.3	203.6	151.0	203.6	256.3	269.5	580.1	994.2	1201.3	1262.7	1385.8
105°	284.4	239.8	195.2	239.8	284.4	295.6	596.3	997.4	1197.9	1335.8	1611.7
107.5°	323.9	282.2	240.6	282.2	323.9	334.2	599.4	953.0	1129.8	1322.2	1707.1
110°	346.4	308.8	271.3	308.8	346.4	355.8	594.8	913.7	1073.1	1288.2	1718.4



TEST NUMBER: P934556

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	372.9	337.1	301.3	337.1	372.9	381.9	595.0	879.2	1021.4	1241.5	1681.9
115°	412.8	379.7	346.7	379.7	412.8	421.0	600.5	839.9	959.5	1171.6	1595.8
117.5°	451.5	421.5	391.5	421.5	451.5	459.0	611.6	815.2	917.0	1108.4	1491.2
120°	474.1	445.9	417.6	445.9	474.1	481.1	620.7	806.9	900.0	1074.9	1424.6
122.5°	500.1	471.7	443.2	471.7	500.1	507.3	633.9	802.5	886.9	1044.3	1359.4
125°	534.3	508.3	482.3	508.3	534.3	540.8	651.5	798.9	872.7	1006.5	1274.0
127.5°	566.6	540.3	514.1	540.3	566.6	573.1	669.0	796.8	860.8	975.7	1205.4
130°	587.6	559.4	531.2	559.4	587.6	594.7	681.8	798.1	856.3	958.5	1163.1
132.5°	605.2	577.0	548.7	577.0	605.2	612.3	692.3	798.9	852.3	943.8	1126.9
135°	626.2	600.5	574.8	600.5	626.2	632.7	703.6	798.2	845.5	922.2	1075.5
137.5°	652.5	627.0	601.5	627.0	652.5	658.8	720.7	803.2	844.4	909.2	1038.8
140°	670.5	647.1	623.6	647.1	670.5	676.3	731.0	803.9	840.3	896.3	1008.4
142.5°	684.0	662.3	640.6	662.3	684.0	689.5	739.8	806.8	840.3	889.5	987.9
145°	704.5	685.6	666.7	685.6	704.5	709.3	751.1	806.8	834.7	874.9	955.4
147.5°	729.7	711.2	692.9	711.2	729.7	734.2	767.7	812.4	834.7	866.4	929.7
150°	743.1	726.4	709.8	726.4	743.1	747.3	776.5	815.3	834.7	861.4	914.9
152.5°	752.7	740.0	727.5	740.0	752.7	755.8	782.2	817.2	834.7	857.6	903.2
155°	772.2	762.9	753.5	762.9	772.2	774.5	794.6	821.3	834.7	852.9	889.2
157.5°	791.0	782.0	772.9	782.0	791.0	793.3	807.1	825.6	834.7	848.9	877.0
160°	800.0	793.0	785.9	793.0	800.0	801.8	812.8	827.4	834.7	846.8	871.0
162.5°	809.6	804.3	798.9	804.3	809.6	810.9	818.9	829.4	834.7	844.9	865.3
165°	822.7	817.9	813.2	817.9	822.7	823.9	827.5	832.3	834.7	842.1	856.7
167.5°	830.7	828.4	826.2	828.4	830.7	831.2	834.3	838.3	840.3	845.1	854.7
170°	839.2	836.9	834.7	836.9	839.2	839.8	840.0	840.2	840.3	845.1	854.7
172.5°	840.2	839.7	839.2	839.7	840.2	840.3	840.3	840.3	840.3	844.1	851.7
175°	845.5	845.5	845.5	845.5	845.5	845.5	843.7	841.4	840.3	842.7	847.6
177.5°	845.5	845.5	845.5	845.5	845.5	845.5	844.2	842.4	841.5	843.5	847.2
180°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5



TEST NUMBER: P934556  
 CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4	4924.4
2.5°	4751.9	4738.0	4756.6	4705.4	4756.6	4738.0	4751.9	4784.6	4756.6	4775.2	4793.9
5°	4169.6	4146.3	4071.7	4011.2	4071.7	4146.3	4169.6	4267.5	4314.0	4397.9	4509.6
7.5°	3727.0	3708.4	3689.8	3652.5	3689.8	3708.4	3727.0	3754.9	3801.6	3876.1	3959.9
10°	3629.2	3633.8	3661.8	3657.1	3661.8	3633.8	3629.2	3619.8	3605.9	3619.8	3671.1
12.5°	3880.7	3922.7	4076.4	4067.1	4076.4	3922.7	3880.7	3694.4	3568.6	3545.3	3554.6
15°	4169.6	4183.6	4216.2	4220.8	4216.2	4183.6	4169.6	4095.0	3717.7	3554.6	3503.4
17.5°	4197.5	4202.2	4225.5	4225.5	4225.5	4202.2	4197.5	4165.0	4039.1	3820.2	3531.4
20°	4174.2	4183.6	4230.2	4239.5	4230.2	4183.6	4174.2	4132.3	4062.5	3983.3	3764.3
22.5°	4165.0	4183.6	4220.8	4216.2	4220.8	4183.6	4165.0	4099.7	4039.1	3983.3	3894.7
25°	4118.3	4118.3	4123.0	4127.7	4123.0	4118.3	4118.3	4067.1	3946.0	3932.0	3880.7
27.5°	4020.5	4029.9	4057.8	4053.1	4057.8	4029.9	4020.5	4001.9	3871.5	3857.4	3820.2
30°	3932.0	3922.7	3899.4	3880.7	3899.4	3922.7	3932.0	3904.1	3773.6	3736.3	3745.7
32.5°	3782.9	3759.6	3736.3	3722.4	3736.3	3759.6	3782.9	3773.6	3675.7	3624.5	3633.8
35°	3605.9	3610.6	3605.9	3591.9	3605.9	3610.6	3605.9	3615.2	3554.6	3508.1	3503.4
37.5°	3480.1	3489.4	3484.8	3466.1	3484.8	3489.4	3480.1	3470.8	3386.9	3373.0	3382.3
40°	3349.7	3354.4	3349.7	3335.6	3349.7	3354.4	3349.7	3331.0	3214.6	3219.2	3251.9
42.5°	3223.9	3219.2	3205.2	3195.9	3205.2	3219.2	3223.9	3195.9	3046.8	3032.9	3093.5
45°	3079.4	3084.1	3056.1	3042.2	3056.1	3084.1	3079.4	3060.8	2907.1	2869.8	2911.8
47.5°	2935.1	2935.1	2911.8	2897.7	2911.8	2935.1	2935.1	2911.8	2748.7	2711.4	2734.7
50°	2781.3	2776.7	2744.0	2739.3	2744.0	2776.7	2781.3	2767.3	2595.0	2562.3	2562.3
52.5°	2604.2	2604.2	2608.9	2618.2	2608.9	2604.2	2604.2	2608.9	2455.2	2422.5	2413.3
55°	2450.5	2455.2	2487.8	2497.1	2487.8	2455.2	2450.5	2450.5	2310.8	2278.2	2259.5
57.5°	2292.1	2292.1	2315.4	2315.4	2315.4	2292.1	2292.1	2282.8	2147.7	2119.8	2110.4
60°	2110.4	2119.8	2138.4	2133.7	2138.4	2119.8	2110.4	2101.1	1984.6	1966.0	1933.4
62.5°	1919.5	1928.7	1933.4	1924.0	1933.4	1928.7	1919.5	1891.5	1821.5	1807.6	1765.6
65°	1719.1	1728.4	1733.1	1723.7	1733.1	1728.4	1719.1	1705.1	1653.9	1630.6	1593.3
67.5°	1514.1	1509.4	1504.7	1523.4	1504.7	1509.4	1514.1	1495.5	1462.9	1444.2	1393.0
70°	1304.4	1304.4	1299.8	1309.1	1299.8	1304.4	1304.4	1290.5	1271.8	1257.9	1211.3
72.5°	1080.9	1076.2	1094.8	1080.9	1094.8	1076.2	1080.9	1076.2	1066.8	1052.9	1006.3
75°	861.9	871.2	861.9	875.8	861.9	871.2	861.9	866.5	861.9	852.5	820.0
77.5°	656.9	666.2	656.9	656.9	656.9	666.2	656.9	661.6	661.6	661.6	633.6
80°	465.9	461.2	461.2	456.6	461.2	461.2	465.9	465.9	470.5	461.2	451.9
82.5°	298.2	293.5	293.5	302.8	293.5	293.5	298.2	302.8	293.5	293.5	293.5
85°	163.1	167.8	158.4	158.4	158.4	167.8	163.1	153.7	163.1	163.1	158.4
87.5°	60.6	55.9	55.9	55.9	55.9	55.9	60.6	65.2	65.2	65.2	69.8
90°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	28.7	38.4	43.1	37.1
92.5°	107.8	103.5	86.4	69.2	86.4	103.5	107.8	152.8	212.8	242.8	213.2
95°	366.0	352.9	301.0	249.1	301.0	352.9	366.0	480.6	633.4	709.8	599.5
97.5°	844.9	820.2	721.3	622.5	721.3	820.2	844.9	917.3	1014.0	1062.2	878.2
100°	1186.5	1157.0	1039.3	921.5	1039.3	1157.0	1186.5	1181.2	1174.1	1170.6	966.4
102.5°	1478.1	1452.9	1352.0	1251.2	1352.0	1452.9	1478.1	1385.8	1262.7	1201.3	994.2
105°	1818.6	1805.0	1750.9	1696.6	1750.9	1805.0	1818.6	1611.7	1335.8	1197.9	997.4
107.5°	1995.7	1999.0	2012.0	2025.2	2012.0	1999.0	1995.7	1707.1	1322.2	1129.8	953.0
110°	2041.0	2055.2	2111.6	2168.1	2111.6	2055.2	2041.0	1718.4	1288.2	1073.1	913.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2012.1	2033.8	2120.6	2207.3	2120.6	2033.8	2012.1	1681.9	1241.5	1021.4	879.2
115°	1913.9	1944.0	2064.4	2184.7	2064.4	1944.0	1913.9	1595.8	1171.6	959.5	839.9
117.5°	1778.3	1811.6	1945.1	2078.5	1945.1	1811.6	1778.3	1491.2	1108.4	917.0	815.2
120°	1687.0	1719.4	1849.1	1978.6	1849.1	1719.4	1687.0	1424.6	1074.9	900.0	806.9
122.5°	1595.6	1627.5	1755.5	1883.3	1755.5	1627.5	1595.6	1359.4	1044.3	886.9	802.5
125°	1474.7	1504.2	1621.9	1739.8	1621.9	1504.2	1474.7	1274.0	1006.5	872.7	798.9
127.5°	1377.7	1402.6	1501.9	1601.3	1501.9	1402.6	1377.7	1205.4	975.7	860.8	796.8
130°	1316.4	1339.4	1431.2	1523.0	1431.2	1339.4	1316.4	1163.1	958.5	856.3	798.1
132.5°	1264.2	1284.8	1367.0	1449.2	1367.0	1284.8	1264.2	1126.9	943.8	852.3	798.9
135°	1190.5	1208.2	1279.1	1349.9	1279.1	1208.2	1190.5	1075.5	922.2	845.5	798.2
137.5°	1136.0	1150.5	1208.5	1266.5	1208.5	1150.5	1136.0	1038.8	909.2	844.4	803.2
140°	1092.3	1105.9	1160.1	1214.3	1160.1	1105.9	1092.3	1008.4	896.3	840.3	803.9
142.5°	1061.7	1073.3	1120.0	1166.7	1120.0	1073.3	1061.7	987.9	889.5	840.3	806.8
145°	1015.7	1024.5	1059.8	1095.2	1059.8	1024.5	1015.7	955.4	874.9	834.7	806.8
147.5°	977.2	984.5	1013.7	1043.0	1013.7	984.5	977.2	929.7	866.4	834.7	812.4
150°	955.0	960.9	984.6	1008.4	984.6	960.9	955.0	914.9	861.4	834.7	815.3
152.5°	937.4	941.9	959.8	977.7	959.8	941.9	937.4	903.2	857.6	834.7	817.2
155°	916.4	919.3	931.3	943.1	931.3	919.3	916.4	889.2	852.9	834.7	821.3
157.5°	898.2	900.4	908.6	917.0	908.6	900.4	898.2	877.0	848.9	834.7	825.6
160°	889.2	890.3	895.2	900.0	895.2	890.3	889.2	871.0	846.8	834.7	827.4
162.5°	880.6	881.7	886.3	890.9	886.3	881.7	880.6	865.3	844.9	834.7	829.4
165°	867.6	868.8	873.6	878.4	873.6	868.8	867.6	856.7	842.1	834.7	832.3
167.5°	861.9	862.4	864.5	866.5	864.5	862.4	861.9	854.7	845.1	840.3	838.3
170°	861.9	861.9	861.9	861.9	861.9	861.9	861.9	854.7	845.1	840.3	840.2
172.5°	857.4	856.9	855.2	853.5	855.2	856.9	857.4	851.7	844.1	840.3	840.3
175°	851.2	851.2	851.2	851.2	851.2	851.2	851.2	847.6	842.7	840.3	841.4
177.5°	850.1	849.5	847.5	845.5	847.5	849.5	850.1	847.2	843.5	841.5	842.4
180°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	4924.4	4924.4	4924.4	4924.4	4924.4
2.5°	4863.8	4887.1	4901.0	4919.7	4966.3
5°	4677.4	4766.0	4793.9	4863.8	4947.6
7.5°	4267.5	4537.6	4612.2	4779.9	4910.3
10°	3871.5	4141.6	4272.1	4668.1	4863.8
12.5°	3671.1	3829.5	3918.0	4472.4	4798.5
15°	3545.3	3657.1	3722.4	4211.5	4724.0
17.5°	3447.5	3526.7	3573.3	3955.3	4621.5
20°	3386.9	3424.2	3466.1	3769.0	4505.1
22.5°	3345.0	3321.7	3354.4	3638.5	4346.7
25°	3317.0	3228.5	3265.8	3536.0	4160.3
27.5°	3340.3	3144.7	3158.6	3442.8	3964.6
30°	3345.0	3042.2	3046.8	3345.0	3745.7
32.5°	3312.4	2935.1	2939.7	3223.9	3498.7
35°	3233.2	2809.2	2804.6	3084.1	3163.3
37.5°	3126.0	2674.2	2674.2	2930.4	2795.3
40°	2995.6	2539.0	2553.0	2730.1	2469.2
42.5°	2837.1	2394.6	2413.3	2464.5	2226.9
45°	2664.8	2254.9	2268.8	2082.4	2040.5
47.5°	2473.8	2110.4	2115.1	1728.4	1980.0
50°	2245.5	1961.3	1942.7	1481.5	1975.3
52.5°	2045.2	1798.3	1742.3	1341.8	1793.6
55°	1849.5	1625.9	1504.7	1234.6	1663.1
57.5°	1677.2	1402.3	1285.8	1108.8	1635.2
60°	1518.8	1183.4	1094.8	973.7	1500.2
62.5°	1388.3	1020.3	1001.7	880.5	1360.4
65°	1248.5	908.4	903.8	801.3	1155.4
67.5°	1113.4	833.9	829.2	726.7	880.5
70°	969.0	754.7	745.4	647.5	652.2
72.5°	820.0	666.2	656.9	582.4	540.4
75°	670.8	563.7	559.1	507.8	437.9
77.5°	526.5	447.3	456.6	409.9	321.5
80°	377.4	326.1	335.4	293.5	242.3
82.5°	251.5	214.3	223.6	186.4	163.1
85°	139.8	121.1	125.8	97.8	74.5
87.5°	65.2	55.9	55.9	37.3	23.3
90°	25.0	15.9	14.8	10.2	5.7
92.5°	153.9	109.5	99.8	61.2	22.7
95°	378.8	213.4	195.7	125.1	54.5
97.5°	510.3	234.4	218.8	156.5	94.2
100°	558.1	251.9	237.8	181.3	124.8
102.5°	580.1	269.5	256.3	203.6	151.0
105°	596.3	295.6	284.4	239.8	195.2
107.5°	599.4	334.2	323.9	282.2	240.6
110°	594.8	355.8	346.4	308.8	271.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	595.0	381.9	372.9	337.1	301.3
115°	600.5	421.0	412.8	379.7	346.7
117.5°	611.6	459.0	451.5	421.5	391.5
120°	620.7	481.1	474.1	445.9	417.6
122.5°	633.9	507.3	500.1	471.7	443.2
125°	651.5	540.8	534.3	508.3	482.3
127.5°	669.0	573.1	566.6	540.3	514.1
130°	681.8	594.7	587.6	559.4	531.2
132.5°	692.3	612.3	605.2	577.0	548.7
135°	703.6	632.7	626.2	600.5	574.8
137.5°	720.7	658.8	652.5	627.0	601.5
140°	731.0	676.3	670.5	647.1	623.6
142.5°	739.8	689.5	684.0	662.3	640.6
145°	751.1	709.3	704.5	685.6	666.7
147.5°	767.7	734.2	729.7	711.2	692.9
150°	776.5	747.3	743.1	726.4	709.8
152.5°	782.2	755.8	752.7	740.0	727.5
155°	794.6	774.5	772.2	762.9	753.5
157.5°	807.1	793.3	791.0	782.0	772.9
160°	812.8	801.8	800.0	793.0	785.9
162.5°	818.9	810.9	809.6	804.3	798.9
165°	827.5	823.9	822.7	817.9	813.2
167.5°	834.3	831.2	830.7	828.4	826.2
170°	840.0	839.8	839.2	836.9	834.7
172.5°	840.3	840.3	840.2	839.7	839.2
175°	843.7	845.5	845.5	845.5	845.5
177.5°	844.2	845.5	845.5	845.5	845.5
180°	845.5	845.5	845.5	845.5	845.5



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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	15.94	17.02	16.71	17.80	18.76	18.79	19.87	19.56	20.65	21.61
	3H	16.43	17.40	17.21	18.20	19.18	20.16	21.13	20.94	21.92	22.91
	4H	16.63	17.54	17.43	18.35	19.35	20.62	21.53	21.41	22.33	23.33
	6H	16.76	17.60	17.57	18.42	19.43	20.92	21.76	21.73	22.57	23.58
	8H	16.77	17.57	17.59	18.40	19.41	21.00	21.80	21.82	22.64	23.65
	12H	16.75	17.51	17.57	18.34	19.38	21.05	21.82	21.88	22.64	23.68
4H	2H	17.00	17.91	17.80	18.72	19.72	19.23	20.14	20.03	20.94	21.94
	3H	18.05	18.81	18.86	19.65	20.66	20.76	21.52	21.57	22.36	23.37
	4H	18.34	19.03	19.16	19.86	20.90	21.30	21.99	22.13	22.83	23.87
	6H	18.47	19.07	19.32	19.93	20.98	21.68	22.28	22.53	23.14	24.19
	8H	18.48	19.04	19.33	19.90	20.96	21.80	22.35	22.64	23.21	24.27
	12H	18.46	18.96	19.33	19.84	20.90	21.87	22.37	22.73	23.25	24.31
8H	4H	18.81	19.37	19.66	20.23	21.28	21.44	22.00	22.29	22.86	23.91
	6H	19.08	19.54	19.96	20.44	21.50	21.89	22.35	22.77	23.25	24.31
	8H	19.13	19.53	20.01	20.43	21.50	22.05	22.46	22.93	23.35	24.43
	12H	19.12	19.48	20.01	20.37	21.49	22.16	22.52	23.05	23.41	24.54
12H	4H	18.83	19.33	19.69	20.21	21.27	21.42	21.92	22.28	22.80	23.86
	6H	19.14	19.55	20.03	20.45	21.52	21.89	22.30	22.77	23.19	24.27
	8H	19.22	19.58	20.11	20.47	21.60	22.07	22.43	22.95	23.31	24.44