

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: P934605

Luminaire Tested: SQ4-FA-050U-125D-B50-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

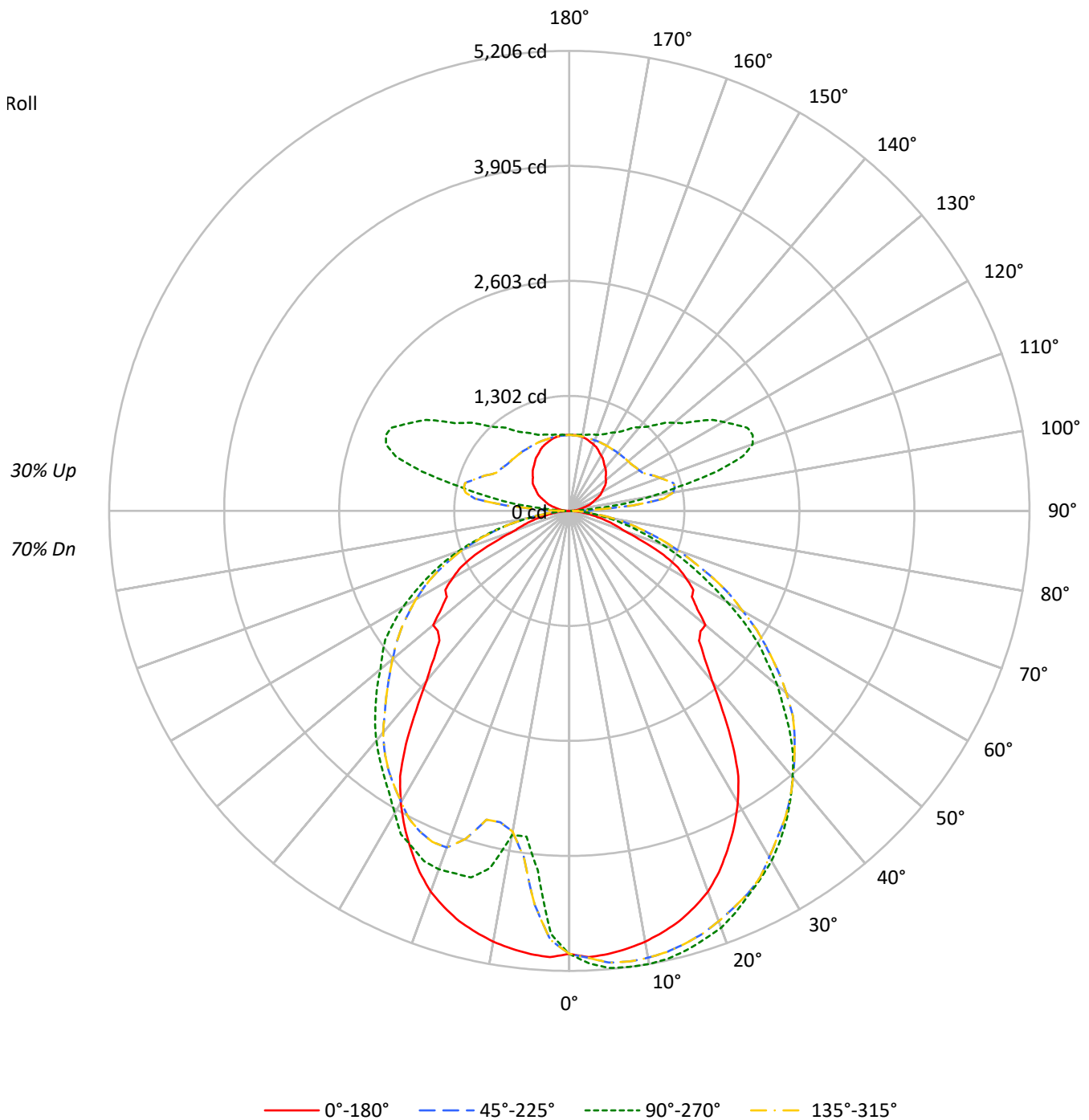
Test Method: LM-79-2019  
Report Number: P934605  
REPORT IS A COMBINATION OF REPORTS P933701 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-125D-B50-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18576.3 lumens  
Efficiency: N/A  
Efficacy: 110.6 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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### Luminous Intensity Polar Plot





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

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

	0°	90°	180°	270°
0°	15502	15502	15502	15502
5°	15623	15649	15623	12305
10°	15525	15414	15525	11020
15°	15362	15081	15362	12592
20°	15047	14685	15047	12619
25°	14395	14108	14395	12351
30°	13550	13629	13550	11765
35°	12086	13023	12086	11119
40°	10076	12309	10076	10632
45°	9009	11474	9009	10071
50°	9579	10479	9579	9508
55°	9021	9406	9021	9183
60°	9311	7988	9311	8411
65°	8455	6604	8455	7381
70°	5869	5262	5869	6188
75°	5166	3890	5166	4658
80°	4194	2572	4194	2801
85°	2456	1362	2456	1158

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 13799 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.4	2.4
10°-20°	1284.5	6.9
20°-30°	1985.6	10.7
30°-40°	2370.4	12.8
40°-50°	2384.3	12.8
50°-60°	2074.6	11.2
60°-70°	1470.9	7.9
70°-80°	778.2	4.2
80°-90°	197.1	1.1
90°-100°	419.4	2.3
100°-110°	1102.8	5.9
110°-120°	1143.4	6.2
120°-130°	917.2	4.9
130°-140°	719.7	3.9
140°-150°	552.4	3.0
150°-160°	397.8	2.1
160°-170°	243.4	1.3
170°-180°	82.2	0.4
0°-30°	3722.5	20.0
0°-40°	6092.9	32.8
0°-60°	10551.8	56.8
0°-90°	12998.0	70.0
90°-120°	2665.6	14.3
90°-150°	4854.8	26.1
90°-180°	5578.0	30.0
0°-180°	18576.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5012	5012	5012	5012	5012	
5°	5036	5192	5036	4082	5036	478
15°	4808	5145	4808	4296	4808	1353
25°	4234	4798	4234	4201	4234	1944
35°	3220	4282	3220	3656	3220	1992
45°	2077	3528	2077	3096	2077	1664
55°	1693	2603	1693	2542	1693	1555
65°	1176	1570	1176	1754	1176	1124
75°	446	744	446	891	446	469
85°	76	190	76	161	76	102
90°	6	22	6	22	6	8
95°	56	254	56	254	56	62
105°	199	1727	199	1727	199	211
115°	353	2224	353	2224	353	348
125°	491	1771	491	1771	491	436
135°	585	1374	585	1374	585	453
145°	679	1115	679	1115	679	425
155°	767	960	767	960	767	352
165°	828	894	828	894	828	234
175°	860	866	860	866	860	82
180°	860	860	860	860	860	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	5054.5	5054.5	5082.9	5092.4	5092.4	5078.2	5064.0	5078.2	5120.8	5135.1	5130.4
5°	5035.5	5073.5	5125.6	5135.1	5144.6	5139.8	5130.4	5139.8	5187.2	5196.8	5201.4
7.5°	4997.6	5068.7	5135.1	5149.3	5163.5	5149.3	5144.6	5154.1	5201.4	5211.0	5211.0
10°	4950.2	5049.8	5125.6	5135.1	5149.3	5135.1	5135.1	5154.1	5201.4	5211.0	5215.7
12.5°	4883.8	5021.3	5092.4	5101.9	5120.8	5116.1	5111.4	5130.4	5177.7	5187.2	5187.2
15°	4808.0	4969.2	5035.5	5045.0	5078.2	5068.7	5068.7	5087.7	5139.8	5154.1	5149.3
17.5°	4703.6	4902.8	4978.6	4992.9	5016.5	5011.8	5016.5	5035.5	5082.9	5092.4	5097.1
20°	4585.1	4812.6	4902.8	4916.9	4940.7	4940.7	4940.7	4964.4	5011.8	5030.8	5030.8
22.5°	4423.9	4717.8	4812.6	4822.1	4850.6	4850.6	4860.1	4893.2	4935.9	4940.7	4940.7
25°	4234.2	4613.5	4694.1	4722.6	4751.1	4765.3	4779.5	4798.4	4812.6	4808.0	4812.6
27.5°	4035.1	4480.8	4585.1	4604.1	4642.0	4656.2	4675.1	4679.9	4684.7	4698.9	4689.4
30°	3812.2	4295.8	4452.3	4471.2	4532.9	4542.4	4523.5	4532.9	4556.6	4566.1	4575.6
32.5°	3560.9	4020.9	4314.8	4357.5	4414.4	4386.0	4381.2	4395.4	4433.3	4433.3	4442.9
35°	3219.5	3807.5	4186.7	4224.7	4267.4	4234.2	4253.2	4257.9	4281.6	4295.8	4291.1
37.5°	2845.0	3622.5	4054.0	4082.5	4115.7	4073.0	4101.5	4115.7	4134.6	4125.1	4125.1
40°	2513.0	3333.3	3897.6	3916.5	3944.9	3911.8	3940.3	3949.7	3959.2	3949.7	3944.9
42.5°	2266.4	3015.6	3731.6	3755.3	3736.4	3760.0	3769.5	3788.5	3774.3	3755.3	3755.3
45°	2076.7	2930.2	3551.4	3579.8	3551.4	3589.4	3603.6	3603.6	3560.9	3551.4	3546.7
47.5°	2015.2	2759.6	3371.3	3371.3	3357.0	3404.4	3428.2	3394.9	3352.3	3338.0	3338.0
50°	2010.4	2569.9	3124.7	3105.7	3172.1	3229.0	3205.3	3172.1	3138.9	3086.8	3086.8
52.5°	1825.5	2337.6	2807.0	2878.1	2982.4	3015.6	2977.7	2944.5	2887.6	2863.9	2845.0
55°	1692.7	2095.8	2517.8	2660.0	2769.0	2811.7	2740.6	2707.4	2622.1	2607.8	2598.4
57.5°	1664.3	1744.9	2252.2	2432.4	2565.1	2560.5	2517.8	2456.1	2385.0	2370.8	2366.0
60°	1526.8	1261.3	1967.8	2181.1	2318.7	2304.4	2266.4	2209.6	2143.2	2133.7	2124.2
62.5°	1384.6	915.1	1645.3	1887.1	2081.5	2076.7	2043.6	1958.2	1910.9	1887.1	1868.2
65°	1175.9	768.1	1171.1	1569.5	1849.2	1858.7	1787.6	1725.9	1673.7	1645.3	1640.6
67.5°	896.2	625.9	791.8	1308.6	1626.4	1616.8	1526.8	1498.3	1431.9	1417.7	1389.2
70°	663.8	417.2	550.0	1062.1	1408.2	1384.6	1313.4	1280.2	1218.6	1185.3	1166.4
72.5°	550.0	336.6	403.0	825.0	1185.3	1156.9	1095.3	1057.4	1005.2	976.8	957.8
75°	445.7	355.6	308.2	611.7	962.5	943.5	886.6	848.7	806.0	768.1	772.9
77.5°	327.2	331.9	246.6	450.5	763.4	735.0	701.7	654.4	635.4	597.5	597.5
80°	246.6	260.8	184.9	308.2	550.0	550.0	521.5	488.4	455.2	436.2	436.2
82.5°	166.0	166.0	137.5	194.4	374.6	360.3	341.4	331.9	313.0	303.5	303.5
85°	75.8	94.8	85.4	118.5	203.9	213.3	213.3	203.9	199.1	189.7	194.4
87.5°	23.7	42.7	52.1	66.4	104.3	109.1	113.8	113.8	113.8	118.5	118.5
90°	5.8	10.4	15.0	16.2	25.4	37.7	43.9	39.0	29.2	21.9	21.9
92.5°	23.1	62.3	101.6	111.4	156.6	217.0	247.1	216.6	155.5	109.7	105.4
95°	55.5	127.3	199.2	217.2	385.6	610.2	722.4	644.6	489.1	372.5	359.2
97.5°	95.8	159.2	222.7	238.5	519.4	893.8	1081.1	1032.0	933.6	859.9	834.8
100°	127.0	184.6	242.0	256.4	568.1	983.6	1191.4	1195.0	1202.2	1207.6	1177.6
102.5°	153.6	207.3	260.9	274.3	590.4	1011.9	1222.6	1285.2	1410.4	1504.4	1478.7
105°	198.7	244.1	289.4	300.8	606.9	1015.1	1219.2	1359.5	1640.3	1850.9	1837.1
107.5°	244.9	287.2	329.6	340.2	610.1	970.0	1149.8	1345.7	1737.4	2031.2	2034.5
110°	276.1	314.3	352.6	362.1	605.4	929.9	1092.1	1311.1	1748.9	2077.3	2091.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	306.6	343.1	379.5	388.6	605.6	894.9	1039.5	1263.6	1711.7	2047.9	2069.9
115°	352.9	386.5	420.1	428.5	611.2	854.8	976.6	1192.4	1624.1	1948.0	1978.6
117.5°	398.4	429.0	459.5	467.2	622.5	829.7	933.3	1128.1	1517.7	1809.9	1843.8
120°	425.1	453.8	482.5	489.7	631.8	821.3	916.0	1094.0	1449.9	1717.0	1749.9
122.5°	451.0	480.1	509.0	516.3	645.1	816.8	902.6	1062.9	1383.5	1623.9	1656.4
125°	490.9	517.3	543.8	550.4	663.0	813.1	888.2	1024.4	1296.7	1500.9	1530.9
127.5°	523.2	549.9	576.7	583.3	680.9	811.0	876.1	993.0	1226.8	1402.2	1427.5
130°	540.6	569.4	598.0	605.2	694.0	812.3	871.5	975.6	1183.8	1339.8	1363.2
132.5°	558.4	587.2	616.0	623.2	704.6	813.1	867.4	960.6	1147.0	1286.7	1307.6
135°	585.1	611.2	637.4	643.9	716.1	812.4	860.5	938.6	1094.6	1211.7	1229.7
137.5°	612.1	638.1	664.1	670.5	733.5	817.4	859.4	925.3	1057.3	1156.2	1171.0
140°	634.7	658.6	682.4	688.4	744.0	818.2	855.3	912.2	1026.3	1111.7	1125.6
142.5°	652.0	674.1	696.2	701.7	752.9	821.2	855.3	905.3	1005.5	1080.5	1092.4
145°	678.6	697.8	717.0	721.9	764.5	821.2	849.6	890.5	972.4	1033.8	1042.7
147.5°	705.2	723.8	742.6	747.3	781.4	826.9	849.6	881.8	946.2	994.5	1002.0
150°	722.4	739.4	756.4	760.6	790.3	829.8	849.6	876.7	931.1	971.9	978.0
152.5°	740.4	753.2	766.1	769.2	796.0	831.7	849.6	872.8	919.2	954.1	958.7
155°	766.9	776.4	786.0	788.3	808.8	835.9	849.6	868.1	905.0	932.7	935.7
157.5°	786.6	795.9	805.0	807.3	821.5	840.2	849.6	864.0	892.6	914.2	916.3
160°	799.9	807.1	814.3	816.0	827.2	842.1	849.6	861.9	886.5	905.0	906.2
162.5°	813.1	818.6	824.0	825.3	833.4	844.1	849.6	859.9	880.7	896.3	897.4
165°	827.6	832.5	837.3	838.5	842.2	847.1	849.6	857.0	871.9	883.0	884.2
167.5°	840.9	843.1	845.5	846.0	849.1	853.2	855.3	860.1	869.9	877.2	877.8
170°	849.6	851.8	854.1	854.7	854.9	855.2	855.3	860.1	869.9	877.2	877.2
172.5°	854.1	854.6	855.2	855.3	855.3	855.3	855.3	859.1	866.8	872.6	872.2
175°	860.5	860.5	860.5	860.5	858.7	856.4	855.3	857.7	862.6	866.3	866.3
177.5°	860.5	860.5	860.5	860.5	859.2	857.4	856.5	858.4	862.3	865.2	864.6
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	5139.8	5125.6	5139.8	5130.4	5135.1	5120.8	5078.2	5064.0	5078.2	5092.4	5092.4
5°	5201.4	5192.0	5201.4	5201.4	5196.8	5187.2	5139.8	5130.4	5139.8	5144.6	5135.1
7.5°	5220.4	5206.2	5220.4	5211.0	5211.0	5201.4	5154.1	5144.6	5149.3	5163.5	5149.3
10°	5220.4	5206.2	5220.4	5215.7	5211.0	5201.4	5154.1	5135.1	5135.1	5149.3	5135.1
12.5°	5196.8	5187.2	5196.8	5187.2	5187.2	5177.7	5130.4	5111.4	5116.1	5120.8	5101.9
15°	5158.8	5144.6	5158.8	5149.3	5154.1	5139.8	5087.7	5068.7	5068.7	5078.2	5045.0
17.5°	5101.9	5082.9	5101.9	5097.1	5092.4	5082.9	5035.5	5016.5	5011.8	5016.5	4992.9
20°	5035.5	5021.3	5035.5	5030.8	5030.8	5011.8	4964.4	4940.7	4940.7	4940.7	4916.9
22.5°	4931.2	4916.9	4931.2	4940.7	4940.7	4935.9	4893.2	4860.1	4850.6	4850.6	4822.1
25°	4812.6	4798.4	4812.6	4812.6	4808.0	4812.6	4798.4	4779.5	4765.3	4751.1	4722.6
27.5°	4698.9	4689.4	4698.9	4689.4	4698.9	4684.7	4679.9	4675.1	4656.2	4642.0	4604.1
30°	4585.1	4575.6	4585.1	4575.6	4566.1	4556.6	4532.9	4523.5	4542.4	4532.9	4471.2
32.5°	4442.9	4433.3	4442.9	4442.9	4433.3	4433.3	4395.4	4381.2	4386.0	4414.4	4357.5
35°	4295.8	4281.6	4295.8	4291.1	4295.8	4281.6	4257.9	4253.2	4234.2	4267.4	4224.7
37.5°	4125.1	4110.9	4125.1	4125.1	4125.1	4134.6	4115.7	4101.5	4073.0	4115.7	4082.5
40°	3949.7	3930.7	3949.7	3944.9	3949.7	3959.2	3949.7	3940.3	3911.8	3944.9	3916.5
42.5°	3750.6	3745.8	3750.6	3755.3	3755.3	3774.3	3788.5	3769.5	3760.0	3736.4	3755.3
45°	3537.2	3527.7	3537.2	3546.7	3551.4	3560.9	3603.6	3603.6	3589.4	3551.4	3579.8
47.5°	3309.6	3285.9	3309.6	3338.0	3338.0	3352.3	3394.9	3428.2	3404.4	3357.0	3371.3
50°	3067.8	3072.5	3067.8	3086.8	3086.8	3138.9	3172.1	3205.3	3229.0	3172.1	3105.7
52.5°	2830.7	2826.0	2830.7	2845.0	2863.9	2887.6	2944.5	2977.7	3015.6	2982.4	2878.1
55°	2593.6	2603.2	2593.6	2598.4	2607.8	2622.1	2707.4	2740.6	2811.7	2769.0	2660.0
57.5°	2356.6	2342.3	2356.6	2366.0	2370.8	2385.0	2456.1	2517.8	2560.5	2565.1	2432.4
60°	2081.5	2062.6	2081.5	2124.2	2133.7	2143.2	2209.6	2266.4	2304.4	2318.7	2181.1
62.5°	1839.7	1806.5	1839.7	1868.2	1887.1	1910.9	1958.2	2043.6	2076.7	2081.5	1887.1
65°	1583.7	1569.5	1583.7	1640.6	1645.3	1673.7	1725.9	1787.6	1858.7	1849.2	1569.5
67.5°	1351.3	1351.3	1351.3	1389.2	1417.7	1431.9	1498.3	1526.8	1616.8	1626.4	1308.6
70°	1138.0	1133.2	1138.0	1166.4	1185.3	1218.6	1280.2	1313.4	1384.6	1408.2	1062.1
72.5°	934.1	929.3	934.1	957.8	976.8	1005.2	1057.4	1095.3	1156.9	1185.3	825.0
75°	753.9	744.4	753.9	772.9	768.1	806.0	848.7	886.6	943.5	962.5	611.7
77.5°	578.4	578.4	578.4	597.5	597.5	635.4	654.4	701.7	735.0	763.4	450.5
80°	431.5	426.7	431.5	436.2	436.2	455.2	488.4	521.5	550.0	550.0	308.2
82.5°	303.5	293.9	303.5	303.5	303.5	313.0	331.9	341.4	360.3	374.6	194.4
85°	189.7	189.7	189.7	194.4	189.7	199.1	203.9	213.3	213.3	203.9	118.5
87.5°	123.3	118.5	123.3	118.5	118.5	113.8	113.8	113.8	109.1	104.3	66.4
90°	21.9	21.9	21.9	21.9	21.9	29.2	39.0	43.9	37.7	25.4	16.2
92.5°	87.9	70.4	87.9	105.4	109.7	155.5	216.6	247.1	217.0	156.6	111.4
95°	306.4	253.5	306.4	359.2	372.5	489.1	644.6	722.4	610.2	385.6	217.2
97.5°	734.1	633.5	734.1	834.8	859.9	933.6	1032.0	1081.1	893.8	519.4	238.5
100°	1057.8	937.9	1057.8	1177.6	1207.6	1202.2	1195.0	1191.4	983.6	568.1	256.4
102.5°	1376.1	1273.4	1376.1	1478.7	1504.4	1410.4	1285.2	1222.6	1011.9	590.4	274.3
105°	1782.0	1726.8	1782.0	1837.1	1850.9	1640.3	1359.5	1219.2	1015.1	606.9	300.8
107.5°	2047.8	2061.2	2047.8	2034.5	2031.2	1737.4	1345.7	1149.8	970.0	610.1	340.2
110°	2149.1	2206.7	2149.1	2091.7	2077.3	1748.9	1311.1	1092.1	929.9	605.4	362.1





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2158.3	2246.6	2158.3	2069.9	2047.9	1711.7	1263.6	1039.5	894.9	605.6	388.6
115°	2101.0	2223.5	2101.0	1978.6	1948.0	1624.1	1192.4	976.6	854.8	611.2	428.5
117.5°	1979.6	2115.4	1979.6	1843.8	1809.9	1517.7	1128.1	933.3	829.7	622.5	467.2
120°	1881.9	2013.8	1881.9	1749.9	1717.0	1449.9	1094.0	916.0	821.3	631.8	489.7
122.5°	1786.6	1916.8	1786.6	1656.4	1623.9	1383.5	1062.9	902.6	816.8	645.1	516.3
125°	1650.8	1770.7	1650.8	1530.9	1500.9	1296.7	1024.4	888.2	813.1	663.0	550.4
127.5°	1528.6	1629.7	1528.6	1427.5	1402.2	1226.8	993.0	876.1	811.0	680.9	583.3
130°	1456.7	1550.1	1456.7	1363.2	1339.8	1183.8	975.6	871.5	812.3	694.0	605.2
132.5°	1391.3	1475.0	1391.3	1307.6	1286.7	1147.0	960.6	867.4	813.1	704.6	623.2
135°	1301.8	1373.9	1301.8	1229.7	1211.7	1094.6	938.6	860.5	812.4	716.1	643.9
137.5°	1230.0	1289.0	1230.0	1171.0	1156.2	1057.3	925.3	859.4	817.4	733.5	670.5
140°	1180.7	1235.9	1180.7	1125.6	1111.7	1026.3	912.2	855.3	818.2	744.0	688.4
142.5°	1139.9	1187.4	1139.9	1092.4	1080.5	1005.5	905.3	855.3	821.2	752.9	701.7
145°	1078.7	1114.6	1078.7	1042.7	1033.8	972.4	890.5	849.6	821.2	764.5	721.9
147.5°	1031.7	1061.5	1031.7	1002.0	994.5	946.2	881.8	849.6	826.9	781.4	747.3
150°	1002.1	1026.3	1002.1	978.0	971.9	931.1	876.7	849.6	829.8	790.3	760.6
152.5°	976.9	995.1	976.9	958.7	954.1	919.2	872.8	849.6	831.7	796.0	769.2
155°	947.8	959.9	947.8	935.7	932.7	905.0	868.1	849.6	835.9	808.8	788.3
157.5°	924.8	933.3	924.8	916.3	914.2	892.6	864.0	849.6	840.2	821.5	807.3
160°	911.1	916.0	911.1	906.2	905.0	886.5	861.9	849.6	842.1	827.2	816.0
162.5°	902.1	906.7	902.1	897.4	896.3	880.7	859.9	849.6	844.1	833.4	825.3
165°	889.2	894.0	889.2	884.2	883.0	871.9	857.0	849.6	847.1	842.2	838.5
167.5°	879.8	881.9	879.8	877.8	877.2	869.9	860.1	855.3	853.2	849.1	846.0
170°	877.2	877.2	877.2	877.2	877.2	869.9	860.1	855.3	855.2	854.9	854.7
172.5°	870.4	868.6	870.4	872.2	872.6	866.8	859.1	855.3	855.3	855.3	855.3
175°	866.3	866.3	866.3	866.3	866.3	862.6	857.7	855.3	856.4	858.7	860.5
177.5°	862.5	860.5	862.5	864.6	865.2	862.3	858.4	856.5	857.4	859.2	860.5
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	5082.9	5054.5	5054.5	5007.1	4988.1	4973.9	4950.2	4879.0	4860.1	4841.1	4869.6
5°	5125.6	5073.5	5035.5	4950.2	4879.0	4850.6	4760.5	4589.8	4476.0	4390.6	4343.3
7.5°	5135.1	5068.7	4997.6	4864.8	4694.1	4618.3	4343.3	4030.3	3944.9	3869.1	3821.6
10°	5125.6	5049.8	4950.2	4751.1	4348.0	4215.2	3940.3	3736.4	3684.2	3670.0	3684.2
12.5°	5092.4	5021.3	4883.8	4551.8	3987.6	3897.6	3736.4	3617.8	3608.3	3632.0	3760.0
15°	5035.5	4969.2	4808.0	4286.3	3788.5	3722.1	3608.3	3565.6	3617.8	3783.7	4167.8
17.5°	4978.6	4902.8	4703.6	4025.5	3636.8	3589.4	3508.8	3594.1	3888.1	4110.9	4239.0
20°	4902.8	4812.6	4585.1	3835.9	3527.7	3485.0	3447.1	3831.2	4054.0	4134.6	4205.7
22.5°	4812.6	4717.8	4423.9	3703.1	3414.0	3380.7	3404.4	3963.9	4054.0	4110.9	4172.6
25°	4694.1	4613.5	4234.2	3598.8	3323.8	3285.9	3375.9	3949.7	4001.8	4016.1	4139.4
27.5°	4585.1	4480.8	4035.1	3504.0	3214.7	3200.5	3399.7	3888.1	3926.0	3940.3	4073.0
30°	4452.3	4295.8	3812.2	3404.4	3101.0	3096.2	3404.4	3812.2	3802.7	3840.6	3973.4
32.5°	4314.8	4020.9	3560.9	3281.1	2991.9	2987.2	3371.3	3698.4	3688.9	3741.0	3840.6
35°	4186.7	3807.5	3219.5	3138.9	2854.4	2859.2	3290.7	3565.6	3570.4	3617.8	3679.4
37.5°	4054.0	3622.5	2845.0	2982.4	2721.7	2721.7	3181.6	3442.4	3432.9	3447.1	3532.5
40°	3897.6	3333.3	2513.0	2778.6	2598.4	2584.1	3048.9	3309.6	3276.4	3271.7	3390.2
42.5°	3731.6	3015.6	2266.4	2508.3	2456.1	2437.2	2887.6	3148.4	3086.8	3101.0	3252.7
45°	3551.4	2930.2	2076.7	2119.4	2309.1	2294.9	2712.1	2963.5	2920.8	2958.7	3115.2
47.5°	3371.3	2759.6	2015.2	1759.1	2152.7	2147.9	2517.8	2783.3	2759.6	2797.5	2963.5
50°	3124.7	2569.9	2010.4	1507.8	1977.2	1996.1	2285.4	2607.8	2607.8	2641.1	2816.5
52.5°	2807.0	2337.6	1825.5	1365.6	1773.3	1830.3	2081.5	2456.1	2465.6	2498.8	2655.3
55°	2517.8	2095.8	1692.7	1256.5	1531.5	1654.8	1882.4	2299.6	2318.7	2351.8	2494.1
57.5°	2252.2	1744.9	1664.3	1128.5	1308.6	1427.2	1707.0	2147.9	2157.4	2185.8	2323.3
60°	1967.8	1261.3	1526.8	991.0	1114.3	1204.4	1545.8	1967.8	2000.9	2019.9	2138.4
62.5°	1645.3	915.1	1384.6	896.2	1019.5	1038.4	1413.0	1797.0	1839.7	1853.9	1925.1
65°	1171.1	768.1	1175.9	815.6	919.9	924.6	1270.7	1621.6	1659.5	1683.3	1735.4
67.5°	791.8	625.9	896.2	739.6	844.0	848.7	1133.2	1417.7	1469.8	1488.9	1522.0
70°	550.0	417.2	663.8	659.0	758.7	768.1	986.2	1232.8	1280.2	1294.4	1313.4
72.5°	403.0	336.6	550.0	592.7	668.6	678.1	834.5	1024.1	1071.6	1085.8	1095.3
75°	308.2	355.6	445.7	516.8	569.0	573.8	682.8	834.5	867.7	877.2	881.9
77.5°	246.6	331.9	327.2	417.2	464.7	455.2	535.8	644.8	673.3	673.3	673.3
80°	184.9	260.8	246.6	298.7	341.4	331.9	384.1	459.9	469.4	478.9	474.2
82.5°	137.5	166.0	166.0	189.7	227.6	218.1	256.0	298.7	298.7	298.7	308.2
85°	85.4	94.8	75.8	99.6	128.1	123.3	142.2	161.2	166.0	166.0	156.4
87.5°	52.1	42.7	23.7	37.9	56.9	56.9	66.4	71.1	66.4	66.4	66.4
90°	15.0	10.4	5.8	10.4	15.0	16.2	25.4	37.7	43.9	39.0	29.2
92.5°	101.6	62.3	23.1	62.3	101.6	111.4	156.6	217.0	247.1	216.6	155.5
95°	199.2	127.3	55.5	127.3	199.2	217.2	385.6	610.2	722.4	644.6	489.1
97.5°	222.7	159.2	95.8	159.2	222.7	238.5	519.4	893.8	1081.1	1032.0	933.6
100°	242.0	184.6	127.0	184.6	242.0	256.4	568.1	983.6	1191.4	1195.0	1202.2
102.5°	260.9	207.3	153.6	207.3	260.9	274.3	590.4	1011.9	1222.6	1285.2	1410.4
105°	289.4	244.1	198.7	244.1	289.4	300.8	606.9	1015.1	1219.2	1359.5	1640.3
107.5°	329.6	287.2	244.9	287.2	329.6	340.2	610.1	970.0	1149.8	1345.7	1737.4
110°	352.6	314.3	276.1	314.3	352.6	362.1	605.4	929.9	1092.1	1311.1	1748.9



TEST NUMBER: P934605

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	379.5	343.1	306.6	343.1	379.5	388.6	605.6	894.9	1039.5	1263.6	1711.7
115°	420.1	386.5	352.9	386.5	420.1	428.5	611.2	854.8	976.6	1192.4	1624.1
117.5°	459.5	429.0	398.4	429.0	459.5	467.2	622.5	829.7	933.3	1128.1	1517.7
120°	482.5	453.8	425.1	453.8	482.5	489.7	631.8	821.3	916.0	1094.0	1449.9
122.5°	509.0	480.1	451.0	480.1	509.0	516.3	645.1	816.8	902.6	1062.9	1383.5
125°	543.8	517.3	490.9	517.3	543.8	550.4	663.0	813.1	888.2	1024.4	1296.7
127.5°	576.7	549.9	523.2	549.9	576.7	583.3	680.9	811.0	876.1	993.0	1226.8
130°	598.0	569.4	540.6	569.4	598.0	605.2	694.0	812.3	871.5	975.6	1183.8
132.5°	616.0	587.2	558.4	587.2	616.0	623.2	704.6	813.1	867.4	960.6	1147.0
135°	637.4	611.2	585.1	611.2	637.4	643.9	716.1	812.4	860.5	938.6	1094.6
137.5°	664.1	638.1	612.1	638.1	664.1	670.5	733.5	817.4	859.4	925.3	1057.3
140°	682.4	658.6	634.7	658.6	682.4	688.4	744.0	818.2	855.3	912.2	1026.3
142.5°	696.2	674.1	652.0	674.1	696.2	701.7	752.9	821.2	855.3	905.3	1005.5
145°	717.0	697.8	678.6	697.8	717.0	721.9	764.5	821.2	849.6	890.5	972.4
147.5°	742.6	723.8	705.2	723.8	742.6	747.3	781.4	826.9	849.6	881.8	946.2
150°	756.4	739.4	722.4	739.4	756.4	760.6	790.3	829.8	849.6	876.7	931.1
152.5°	766.1	753.2	740.4	753.2	766.1	769.2	796.0	831.7	849.6	872.8	919.2
155°	786.0	776.4	766.9	776.4	786.0	788.3	808.8	835.9	849.6	868.1	905.0
157.5°	805.0	795.9	786.6	795.9	805.0	807.3	821.5	840.2	849.6	864.0	892.6
160°	814.3	807.1	799.9	807.1	814.3	816.0	827.2	842.1	849.6	861.9	886.5
162.5°	824.0	818.6	813.1	818.6	824.0	825.3	833.4	844.1	849.6	859.9	880.7
165°	837.3	832.5	827.6	832.5	837.3	838.5	842.2	847.1	849.6	857.0	871.9
167.5°	845.5	843.1	840.9	843.1	845.5	846.0	849.1	853.2	855.3	860.1	869.9
170°	854.1	851.8	849.6	851.8	854.1	854.7	854.9	855.2	855.3	860.1	869.9
172.5°	855.2	854.6	854.1	854.6	855.2	855.3	855.3	855.3	855.3	859.1	866.8
175°	860.5	860.5	860.5	860.5	860.5	860.5	858.7	856.4	855.3	857.7	862.6
177.5°	860.5	860.5	860.5	860.5	860.5	860.5	859.2	857.4	856.5	858.4	862.3
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



TEST NUMBER: P934605  
 CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	4836.3	4822.1	4841.1	4789.0	4841.1	4822.1	4836.3	4869.6	4841.1	4860.1	4879.0
5°	4243.7	4220.0	4144.1	4082.5	4144.1	4220.0	4243.7	4343.3	4390.6	4476.0	4589.8
7.5°	3793.3	3774.3	3755.3	3717.4	3755.3	3774.3	3793.3	3821.6	3869.1	3944.9	4030.3
10°	3693.7	3698.4	3726.8	3722.1	3726.8	3698.4	3693.7	3684.2	3670.0	3684.2	3736.4
12.5°	3949.7	3992.4	4148.8	4139.4	4148.8	3992.4	3949.7	3760.0	3632.0	3608.3	3617.8
15°	4243.7	4257.9	4291.1	4295.8	4291.1	4257.9	4243.7	4167.8	3783.7	3617.8	3565.6
17.5°	4272.1	4276.9	4300.6	4300.6	4300.6	4276.9	4272.1	4239.0	4110.9	3888.1	3594.1
20°	4248.4	4257.9	4305.4	4314.8	4305.4	4257.9	4248.4	4205.7	4134.6	4054.0	3831.2
22.5°	4239.0	4257.9	4295.8	4291.1	4295.8	4257.9	4239.0	4172.6	4110.9	4054.0	3963.9
25°	4191.5	4191.5	4196.3	4201.0	4196.3	4191.5	4191.5	4139.4	4016.1	4001.8	3949.7
27.5°	4091.9	4101.5	4129.9	4125.1	4129.9	4101.5	4091.9	4073.0	3940.3	3926.0	3888.1
30°	4001.8	3992.4	3968.7	3949.7	3968.7	3992.4	4001.8	3973.4	3840.6	3802.7	3812.2
32.5°	3850.1	3826.4	3802.7	3788.5	3802.7	3826.4	3850.1	3840.6	3741.0	3688.9	3698.4
35°	3670.0	3674.7	3670.0	3655.8	3670.0	3674.7	3670.0	3679.4	3617.8	3570.4	3565.6
37.5°	3541.9	3551.4	3546.7	3527.7	3546.7	3551.4	3541.9	3532.5	3447.1	3432.9	3442.4
40°	3409.2	3414.0	3409.2	3394.9	3409.2	3414.0	3409.2	3390.2	3271.7	3276.4	3309.6
42.5°	3281.1	3276.4	3262.2	3252.7	3262.2	3276.4	3281.1	3252.7	3101.0	3086.8	3148.4
45°	3134.1	3138.9	3110.4	3096.2	3110.4	3138.9	3134.1	3115.2	2958.7	2920.8	2963.5
47.5°	2987.2	2987.2	2963.5	2949.2	2963.5	2987.2	2987.2	2963.5	2797.5	2759.6	2783.3
50°	2830.7	2826.0	2792.8	2788.0	2792.8	2826.0	2830.7	2816.5	2641.1	2607.8	2607.8
52.5°	2650.5	2650.5	2655.3	2664.7	2655.3	2650.5	2650.5	2655.3	2498.8	2465.6	2456.1
55°	2494.1	2498.8	2532.0	2541.5	2532.0	2498.8	2494.1	2494.1	2351.8	2318.7	2299.6
57.5°	2332.9	2332.9	2356.6	2356.6	2356.6	2332.9	2332.9	2323.3	2185.8	2157.4	2147.9
60°	2147.9	2157.4	2176.4	2171.6	2176.4	2157.4	2147.9	2138.4	2019.9	2000.9	1967.8
62.5°	1953.6	1963.0	1967.8	1958.2	1967.8	1963.0	1953.6	1925.1	1853.9	1839.7	1797.0
65°	1749.7	1759.1	1763.9	1754.3	1763.9	1759.1	1749.7	1735.4	1683.3	1659.5	1621.6
67.5°	1541.0	1536.2	1531.5	1550.4	1531.5	1536.2	1541.0	1522.0	1488.9	1469.8	1417.7
70°	1327.6	1327.6	1322.9	1332.4	1322.9	1327.6	1327.6	1313.4	1294.4	1280.2	1232.8
72.5°	1100.1	1095.3	1114.3	1100.1	1114.3	1095.3	1100.1	1095.3	1085.8	1071.6	1024.1
75°	877.2	886.6	877.2	891.4	877.2	886.6	877.2	881.9	877.2	867.7	834.5
77.5°	668.6	678.1	668.6	668.6	668.6	678.1	668.6	673.3	673.3	673.3	644.8
80°	474.2	469.4	469.4	464.7	469.4	469.4	474.2	474.2	478.9	469.4	459.9
82.5°	303.5	298.7	298.7	308.2	298.7	298.7	303.5	308.2	298.7	298.7	298.7
85°	166.0	170.7	161.2	161.2	161.2	170.7	166.0	156.4	166.0	166.0	161.2
87.5°	61.6	56.9	56.9	56.9	56.9	56.9	61.6	66.4	66.4	66.4	71.1
90°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	29.2	39.0	43.9	37.7
92.5°	109.7	105.4	87.9	70.4	87.9	105.4	109.7	155.5	216.6	247.1	217.0
95°	372.5	359.2	306.4	253.5	306.4	359.2	372.5	489.1	644.6	722.4	610.2
97.5°	859.9	834.8	734.1	633.5	734.1	834.8	859.9	933.6	1032.0	1081.1	893.8
100°	1207.6	1177.6	1057.8	937.9	1057.8	1177.6	1207.6	1202.2	1195.0	1191.4	983.6
102.5°	1504.4	1478.7	1376.1	1273.4	1376.1	1478.7	1504.4	1410.4	1285.2	1222.6	1011.9
105°	1850.9	1837.1	1782.0	1726.8	1782.0	1837.1	1850.9	1640.3	1359.5	1219.2	1015.1
107.5°	2031.2	2034.5	2047.8	2061.2	2047.8	2034.5	2031.2	1737.4	1345.7	1149.8	970.0
110°	2077.3	2091.7	2149.1	2206.7	2149.1	2091.7	2077.3	1748.9	1311.1	1092.1	929.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2047.9	2069.9	2158.3	2246.6	2158.3	2069.9	2047.9	1711.7	1263.6	1039.5	894.9
115°	1948.0	1978.6	2101.0	2223.5	2101.0	1978.6	1948.0	1624.1	1192.4	976.6	854.8
117.5°	1809.9	1843.8	1979.6	2115.4	1979.6	1843.8	1809.9	1517.7	1128.1	933.3	829.7
120°	1717.0	1749.9	1881.9	2013.8	1881.9	1749.9	1717.0	1449.9	1094.0	916.0	821.3
122.5°	1623.9	1656.4	1786.6	1916.8	1786.6	1656.4	1623.9	1383.5	1062.9	902.6	816.8
125°	1500.9	1530.9	1650.8	1770.7	1650.8	1530.9	1500.9	1296.7	1024.4	888.2	813.1
127.5°	1402.2	1427.5	1528.6	1629.7	1528.6	1427.5	1402.2	1226.8	993.0	876.1	811.0
130°	1339.8	1363.2	1456.7	1550.1	1456.7	1363.2	1339.8	1183.8	975.6	871.5	812.3
132.5°	1286.7	1307.6	1391.3	1475.0	1391.3	1307.6	1286.7	1147.0	960.6	867.4	813.1
135°	1211.7	1229.7	1301.8	1373.9	1301.8	1229.7	1211.7	1094.6	938.6	860.5	812.4
137.5°	1156.2	1171.0	1230.0	1289.0	1230.0	1171.0	1156.2	1057.3	925.3	859.4	817.4
140°	1111.7	1125.6	1180.7	1235.9	1180.7	1125.6	1111.7	1026.3	912.2	855.3	818.2
142.5°	1080.5	1092.4	1139.9	1187.4	1139.9	1092.4	1080.5	1005.5	905.3	855.3	821.2
145°	1033.8	1042.7	1078.7	1114.6	1078.7	1042.7	1033.8	972.4	890.5	849.6	821.2
147.5°	994.5	1002.0	1031.7	1061.5	1031.7	1002.0	994.5	946.2	881.8	849.6	826.9
150°	971.9	978.0	1002.1	1026.3	1002.1	978.0	971.9	931.1	876.7	849.6	829.8
152.5°	954.1	958.7	976.9	995.1	976.9	958.7	954.1	919.2	872.8	849.6	831.7
155°	932.7	935.7	947.8	959.9	947.8	935.7	932.7	905.0	868.1	849.6	835.9
157.5°	914.2	916.3	924.8	933.3	924.8	916.3	914.2	892.6	864.0	849.6	840.2
160°	905.0	906.2	911.1	916.0	911.1	906.2	905.0	886.5	861.9	849.6	842.1
162.5°	896.3	897.4	902.1	906.7	902.1	897.4	896.3	880.7	859.9	849.6	844.1
165°	883.0	884.2	889.2	894.0	889.2	884.2	883.0	871.9	857.0	849.6	847.1
167.5°	877.2	877.8	879.8	881.9	879.8	877.8	877.2	869.9	860.1	855.3	853.2
170°	877.2	877.2	877.2	877.2	877.2	877.2	877.2	869.9	860.1	855.3	855.2
172.5°	872.6	872.2	870.4	868.6	870.4	872.2	872.6	866.8	859.1	855.3	855.3
175°	866.3	866.3	866.3	866.3	866.3	866.3	866.3	862.6	857.7	855.3	856.4
177.5°	865.2	864.6	862.5	860.5	862.5	864.6	865.2	862.3	858.4	856.5	857.4
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	4950.2	4973.9	4988.1	5007.1	5054.5
5°	4760.5	4850.6	4879.0	4950.2	5035.5
7.5°	4343.3	4618.3	4694.1	4864.8	4997.6
10°	3940.3	4215.2	4348.0	4751.1	4950.2
12.5°	3736.4	3897.6	3987.6	4551.8	4883.8
15°	3608.3	3722.1	3788.5	4286.3	4808.0
17.5°	3508.8	3589.4	3636.8	4025.5	4703.6
20°	3447.1	3485.0	3527.7	3835.9	4585.1
22.5°	3404.4	3380.7	3414.0	3703.1	4423.9
25°	3375.9	3285.9	3323.8	3598.8	4234.2
27.5°	3399.7	3200.5	3214.7	3504.0	4035.1
30°	3404.4	3096.2	3101.0	3404.4	3812.2
32.5°	3371.3	2987.2	2991.9	3281.1	3560.9
35°	3290.7	2859.2	2854.4	3138.9	3219.5
37.5°	3181.6	2721.7	2721.7	2982.4	2845.0
40°	3048.9	2584.1	2598.4	2778.6	2513.0
42.5°	2887.6	2437.2	2456.1	2508.3	2266.4
45°	2712.1	2294.9	2309.1	2119.4	2076.7
47.5°	2517.8	2147.9	2152.7	1759.1	2015.2
50°	2285.4	1996.1	1977.2	1507.8	2010.4
52.5°	2081.5	1830.3	1773.3	1365.6	1825.5
55°	1882.4	1654.8	1531.5	1256.5	1692.7
57.5°	1707.0	1427.2	1308.6	1128.5	1664.3
60°	1545.8	1204.4	1114.3	991.0	1526.8
62.5°	1413.0	1038.4	1019.5	896.2	1384.6
65°	1270.7	924.6	919.9	815.6	1175.9
67.5°	1133.2	848.7	844.0	739.6	896.2
70°	986.2	768.1	758.7	659.0	663.8
72.5°	834.5	678.1	668.6	592.7	550.0
75°	682.8	573.8	569.0	516.8	445.7
77.5°	535.8	455.2	464.7	417.2	327.2
80°	384.1	331.9	341.4	298.7	246.6
82.5°	256.0	218.1	227.6	189.7	166.0
85°	142.2	123.3	128.1	99.6	75.8
87.5°	66.4	56.9	56.9	37.9	23.7
90°	25.4	16.2	15.0	10.4	5.8
92.5°	156.6	111.4	101.6	62.3	23.1
95°	385.6	217.2	199.2	127.3	55.5
97.5°	519.4	238.5	222.7	159.2	95.8
100°	568.1	256.4	242.0	184.6	127.0
102.5°	590.4	274.3	260.9	207.3	153.6
105°	606.9	300.8	289.4	244.1	198.7
107.5°	610.1	340.2	329.6	287.2	244.9
110°	605.4	362.1	352.6	314.3	276.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	605.6	388.6	379.5	343.1	306.6
115°	611.2	428.5	420.1	386.5	352.9
117.5°	622.5	467.2	459.5	429.0	398.4
120°	631.8	489.7	482.5	453.8	425.1
122.5°	645.1	516.3	509.0	480.1	451.0
125°	663.0	550.4	543.8	517.3	490.9
127.5°	680.9	583.3	576.7	549.9	523.2
130°	694.0	605.2	598.0	569.4	540.6
132.5°	704.6	623.2	616.0	587.2	558.4
135°	716.1	643.9	637.4	611.2	585.1
137.5°	733.5	670.5	664.1	638.1	612.1
140°	744.0	688.4	682.4	658.6	634.7
142.5°	752.9	701.7	696.2	674.1	652.0
145°	764.5	721.9	717.0	697.8	678.6
147.5°	781.4	747.3	742.6	723.8	705.2
150°	790.3	760.6	756.4	739.4	722.4
152.5°	796.0	769.2	766.1	753.2	740.4
155°	808.8	788.3	786.0	776.4	766.9
157.5°	821.5	807.3	805.0	795.9	786.6
160°	827.2	816.0	814.3	807.1	799.9
162.5°	833.4	825.3	824.0	818.6	813.1
165°	842.2	838.5	837.3	832.5	827.6
167.5°	849.1	846.0	845.5	843.1	840.9
170°	854.9	854.7	854.1	851.8	849.6
172.5°	855.3	855.3	855.2	854.6	854.1
175°	858.7	860.5	860.5	860.5	860.5
177.5°	859.2	860.5	860.5	860.5	860.5
180°	860.5	860.5	860.5	860.5	860.5



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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	16.00	17.08	16.77	17.86	18.82	18.85	19.93	19.62	20.71	21.67
	3H	16.50	17.46	17.27	18.26	19.24	20.22	21.19	21.00	21.98	22.97
	4H	16.70	17.61	17.49	18.41	19.41	20.68	21.59	21.48	22.40	23.39
	6H	16.83	17.67	17.63	18.48	19.49	20.98	21.82	21.79	22.63	23.64
	8H	16.83	17.63	17.65	18.47	19.48	21.06	21.86	21.88	22.70	23.71
	12H	16.81	17.57	17.63	18.40	19.44	21.11	21.88	21.94	22.70	23.74
4H	2H	17.07	17.98	17.86	18.78	19.78	19.29	20.20	20.09	21.00	22.00
	3H	18.11	18.87	18.92	19.71	20.72	20.82	21.58	21.63	22.42	23.43
	4H	18.40	19.09	19.22	19.93	20.97	21.36	22.05	22.19	22.89	23.93
	6H	18.53	19.13	19.38	19.99	21.04	21.74	22.34	22.59	23.20	24.25
	8H	18.54	19.10	19.39	19.96	21.02	21.86	22.42	22.70	23.27	24.33
	12H	18.52	19.02	19.39	19.90	20.97	21.93	22.43	22.80	23.31	24.37
8H	4H	18.87	19.43	19.72	20.29	21.34	21.50	22.06	22.35	22.92	23.97
	6H	19.14	19.60	20.02	20.50	21.56	21.95	22.41	22.83	23.31	24.37
	8H	19.19	19.60	20.07	20.49	21.57	22.11	22.52	23.00	23.41	24.49
	12H	19.18	19.54	20.07	20.43	21.56	22.22	22.58	23.11	23.47	24.60
12H	4H	18.89	19.39	19.75	20.27	21.33	21.48	21.98	22.34	22.86	23.92
	6H	19.21	19.62	20.09	20.51	21.58	21.95	22.36	22.84	23.26	24.33
	8H	19.28	19.64	20.17	20.53	21.66	22.13	22.49	23.01	23.37	24.50