

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: P934409

Luminaire Tested: SQ4-FA-050U-100D-830-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

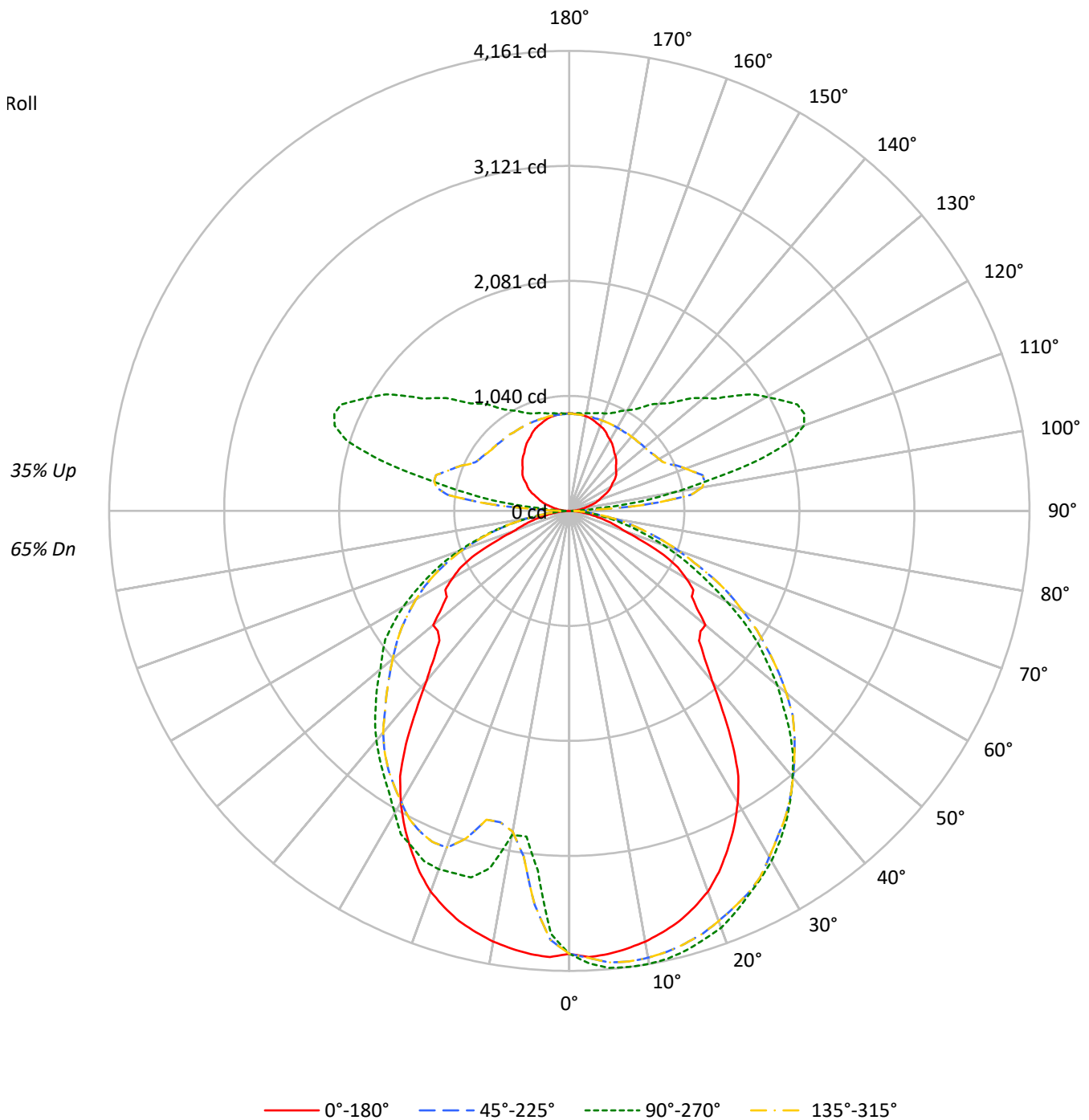
Test Method: LM-79-2019  
Report Number: P934409  
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16098.1 lumens  
Efficiency: N/A  
Efficacy: 118.7 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): 135.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65	65	65	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55	55	55	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46	46	46	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39	39	39	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33	33	33	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29	29	29	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25	25	25	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22	22	22	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20	20	20	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18	18	18	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16	16	16	16

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

	0°	90°	180°	270°
0°	12389	12389	12389	12389
5°	12486	12506	12486	9833
10°	12407	12319	12407	8807
15°	12277	12052	12277	10064
20°	12025	11736	12025	10085
25°	11504	11275	11504	9871
30°	10829	10892	10829	9402
35°	9659	10407	9659	8886
40°	8053	9837	8053	8496
45°	7200	9170	7200	8048
50°	7655	8374	7655	7599
55°	7209	7517	7209	7338
60°	7440	6384	7440	6722
65°	6757	5277	6757	5899
70°	4690	4206	4690	4945
75°	4128	3109	4128	3723
80°	3351	2055	3351	2238
85°	1964	1088	1964	926

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11028 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.5	2.2
10°-20°	1026.5	6.4
20°-30°	1586.8	9.9
30°-40°	1894.3	11.8
40°-50°	1905.5	11.8
50°-60°	1658.0	10.3
60°-70°	1175.5	7.3
70°-80°	621.9	3.9
80°-90°	158.2	1.0
90°-100°	429.3	2.7
100°-110°	1128.7	7.0
110°-120°	1170.4	7.3
120°-130°	938.8	5.8
130°-140°	736.6	4.6
140°-150°	565.4	3.5
150°-160°	407.2	2.5
160°-170°	249.1	1.5
170°-180°	84.2	0.5
0°-30°	2974.9	18.5
0°-40°	4869.3	30.2
0°-60°	8432.7	52.4
0°-90°	10388.4	64.5
90°-120°	2728.4	16.9
90°-150°	4969.2	30.9
90°-180°	5710.0	35.5
0°-180°	16098.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4005	4005	4005	4005	4005	
5°	4024	4149	4024	3263	4024	382
15°	3842	4111	3842	3433	3842	1081
25°	3384	3835	3384	3357	3384	1554
35°	2573	3422	2573	2922	2573	1592
45°	1660	2819	1660	2474	1660	1330
55°	1353	2080	1353	2031	1353	1243
65°	940	1254	940	1402	940	898
75°	356	595	356	712	356	375
85°	61	152	61	129	61	82
90°	6	22	6	22	6	7
95°	57	260	57	260	57	63
105°	203	1768	203	1768	203	216
115°	361	2276	361	2276	361	357
125°	502	1812	502	1812	502	446
135°	599	1406	599	1406	599	463
145°	694	1141	694	1141	694	435
155°	785	982	785	982	785	361
165°	847	915	847	915	847	239
175°	881	887	881	887	881	84
180°	881	881	881	881	881	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4039.4	4039.4	4062.1	4069.7	4069.7	4058.3	4046.9	4058.3	4092.4	4103.8	4100.0
5°	4024.3	4054.6	4096.3	4103.8	4111.4	4107.6	4100.0	4107.6	4145.5	4153.1	4156.9
7.5°	3993.9	4050.8	4103.8	4115.2	4126.6	4115.2	4111.4	4119.0	4156.9	4164.4	4164.4
10°	3956.0	4035.7	4096.3	4103.8	4115.2	4103.8	4103.8	4119.0	4156.9	4164.4	4168.3
12.5°	3903.0	4012.9	4069.7	4077.3	4092.4	4088.6	4084.9	4100.0	4138.0	4145.5	4145.5
15°	3842.4	3971.2	4024.3	4031.8	4058.3	4050.8	4050.8	4066.0	4107.6	4119.0	4115.2
17.5°	3759.0	3918.2	3978.8	3990.2	4009.1	4005.3	4009.1	4024.3	4062.1	4069.7	4073.5
20°	3664.3	3846.2	3918.2	3929.5	3948.5	3948.5	3948.5	3967.4	4005.3	4020.5	4020.5
22.5°	3535.4	3770.4	3846.2	3853.7	3876.5	3876.5	3884.0	3910.5	3944.6	3948.5	3948.5
25°	3383.9	3687.0	3751.4	3774.2	3796.8	3808.2	3819.6	3834.8	3846.2	3842.4	3846.2
27.5°	3224.7	3580.9	3664.3	3679.5	3709.8	3721.1	3736.2	3740.1	3743.8	3755.2	3747.6
30°	3046.6	3433.1	3558.1	3573.3	3622.6	3630.1	3615.0	3622.6	3641.5	3649.1	3656.7
32.5°	2845.7	3213.3	3448.3	3482.3	3527.8	3505.1	3501.4	3512.7	3543.0	3543.0	3550.6
35°	2573.0	3042.9	3346.0	3376.3	3410.3	3383.9	3399.0	3402.8	3421.7	3433.1	3429.4
37.5°	2273.6	2895.1	3239.9	3262.6	3289.1	3255.0	3277.7	3289.1	3304.3	3296.7	3296.7
40°	2008.4	2663.9	3114.8	3129.9	3152.7	3126.2	3148.9	3156.5	3164.1	3156.5	3152.7
42.5°	1811.3	2410.0	2982.1	3001.2	2986.0	3004.9	3012.5	3027.7	3016.3	3001.2	3001.2
45°	1659.7	2341.8	2838.2	2860.9	2838.2	2868.5	2879.9	2879.9	2845.7	2838.2	2834.4
47.5°	1610.5	2205.4	2694.2	2694.2	2682.8	2720.7	2739.7	2713.1	2679.0	2667.7	2667.7
50°	1606.7	2053.8	2497.2	2482.0	2535.0	2580.5	2561.6	2535.0	2508.5	2466.9	2466.9
52.5°	1458.9	1868.1	2243.3	2300.1	2383.5	2410.0	2379.7	2353.2	2307.7	2288.8	2273.6
55°	1352.7	1674.9	2012.1	2125.8	2212.9	2247.1	2190.2	2163.7	2095.5	2084.1	2076.5
57.5°	1330.1	1394.4	1800.0	1943.9	2050.0	2046.2	2012.1	1962.9	1906.0	1894.7	1890.9
60°	1220.1	1007.9	1572.5	1743.1	1853.0	1841.6	1811.3	1765.8	1712.8	1705.2	1697.6
62.5°	1106.5	731.3	1314.9	1508.2	1663.5	1659.7	1633.2	1565.0	1527.1	1508.2	1493.0
65°	939.7	613.8	935.9	1254.3	1477.8	1485.4	1428.6	1379.3	1337.6	1314.9	1311.1
67.5°	716.1	500.2	632.8	1045.9	1299.8	1292.1	1220.1	1197.4	1144.3	1133.0	1110.3
70°	530.5	333.5	439.6	848.8	1125.4	1106.5	1049.6	1023.1	973.9	947.3	932.2
72.5°	439.6	269.0	322.1	659.4	947.3	924.5	875.3	845.0	803.3	780.6	765.5
75°	356.2	284.2	246.3	488.8	769.2	754.1	708.6	678.3	644.2	613.8	617.7
77.5°	261.5	265.3	197.0	360.0	610.1	587.4	560.8	522.9	507.7	477.4	477.4
80°	197.0	208.4	147.8	246.3	439.6	439.6	416.8	390.3	363.8	348.7	348.7
82.5°	132.6	132.6	109.8	155.4	299.3	287.9	272.8	265.3	250.1	242.5	242.5
85°	60.6	75.8	68.2	94.7	162.9	170.6	170.6	162.9	159.2	151.5	155.4
87.5°	18.9	34.1	41.7	53.1	83.4	87.2	90.9	90.9	90.9	94.7	94.7
90°	5.9	10.6	15.4	16.5	26.0	38.6	44.9	40.0	29.9	22.5	22.5
92.5°	23.6	63.8	104.0	114.1	160.3	222.1	253.0	221.7	159.2	112.3	107.8
95°	56.8	130.3	203.9	222.3	394.6	624.6	739.5	659.8	500.7	381.3	367.7
97.5°	98.1	163.0	227.9	244.2	531.6	914.9	1106.6	1056.3	955.6	880.2	854.5
100°	130.0	188.9	247.7	262.4	581.4	1006.8	1219.5	1223.1	1230.5	1236.0	1205.3
102.5°	157.3	212.1	267.0	280.8	604.3	1035.7	1251.4	1315.5	1443.7	1539.8	1513.5
105°	203.3	249.8	296.3	307.9	621.2	1039.0	1247.9	1391.6	1678.9	1894.5	1880.4
107.5°	250.7	294.0	337.4	348.2	624.5	992.8	1176.9	1377.4	1778.4	2079.0	2082.5
110°	282.6	321.7	360.9	370.6	619.7	951.8	1117.9	1341.9	1790.1	2126.2	2141.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	313.9	351.1	388.4	397.8	619.9	915.9	1064.0	1293.4	1752.1	2096.1	2118.7
115°	361.2	395.6	430.0	438.6	625.6	874.9	999.6	1220.5	1662.4	1993.8	2025.2
117.5°	407.8	439.1	470.4	478.2	637.2	849.2	955.2	1154.7	1553.4	1852.5	1887.2
120°	435.1	464.5	493.9	501.2	646.6	840.6	937.5	1119.8	1484.1	1757.4	1791.2
122.5°	461.7	491.4	521.0	528.5	660.3	836.0	923.9	1087.9	1416.1	1662.2	1695.5
125°	502.5	529.5	556.6	563.4	678.7	832.3	909.2	1048.5	1327.2	1536.3	1567.0
127.5°	535.6	562.9	590.2	597.0	696.9	830.1	896.7	1016.4	1255.7	1435.2	1461.2
130°	553.3	582.8	612.1	619.5	710.3	831.4	892.0	998.5	1211.6	1371.4	1395.3
132.5°	571.6	601.0	630.5	637.8	721.2	832.3	887.8	983.2	1174.0	1317.0	1338.4
135°	598.8	625.6	652.4	659.1	733.0	831.5	880.8	960.7	1120.4	1240.2	1258.7
137.5°	626.6	653.1	679.7	686.3	750.7	836.7	879.6	947.1	1082.2	1183.4	1198.5
140°	649.6	674.1	698.5	704.6	761.5	837.5	875.4	933.7	1050.5	1137.9	1152.1
142.5°	667.4	689.9	712.6	718.2	770.6	840.5	875.4	926.7	1029.1	1106.0	1118.1
145°	694.5	714.2	733.9	738.9	782.5	840.5	869.6	911.5	995.3	1058.1	1067.3
147.5°	721.8	740.9	760.1	764.9	799.8	846.3	869.6	902.6	968.5	1017.9	1025.6
150°	739.5	756.8	774.2	778.5	808.9	849.3	869.6	897.4	953.0	994.8	1001.0
152.5°	757.8	770.9	784.1	787.4	814.8	851.3	869.6	893.4	940.9	976.6	981.2
155°	785.0	794.7	804.5	806.9	827.8	855.6	869.6	888.5	926.3	954.7	957.7
157.5°	805.1	814.6	824.0	826.4	840.8	860.0	869.6	884.3	913.6	935.7	937.9
160°	818.7	826.1	833.4	835.3	846.7	861.9	869.6	882.2	907.3	926.3	927.5
162.5°	832.3	837.8	843.4	844.7	853.0	864.0	869.6	880.2	901.4	917.4	918.5
165°	847.1	852.1	857.1	858.3	862.0	867.1	869.6	877.2	892.4	903.8	905.0
167.5°	860.7	863.0	865.4	865.9	869.1	873.3	875.4	880.4	890.4	897.9	898.4
170°	869.6	871.9	874.3	874.8	875.0	875.3	875.4	880.4	890.4	897.9	897.9
172.5°	874.3	874.7	875.3	875.4	875.4	875.4	875.4	879.3	887.3	893.2	892.7
175°	880.8	880.8	880.8	880.8	878.9	876.6	875.4	877.9	883.0	886.7	886.7
177.5°	880.8	880.8	880.8	880.8	879.4	877.6	876.7	878.7	882.6	885.5	885.0
180°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4107.6	4096.3	4107.6	4100.0	4103.8	4092.4	4058.3	4046.9	4058.3	4069.7	4069.7
5°	4156.9	4149.3	4156.9	4156.9	4153.1	4145.5	4107.6	4100.0	4107.6	4111.4	4103.8
7.5°	4172.0	4160.7	4172.0	4164.4	4164.4	4156.9	4119.0	4111.4	4115.2	4126.6	4115.2
10°	4172.0	4160.7	4172.0	4168.3	4164.4	4156.9	4119.0	4103.8	4103.8	4115.2	4103.8
12.5°	4153.1	4145.5	4153.1	4145.5	4145.5	4138.0	4100.0	4084.9	4088.6	4092.4	4077.3
15°	4122.8	4111.4	4122.8	4115.2	4119.0	4107.6	4066.0	4050.8	4050.8	4058.3	4031.8
17.5°	4077.3	4062.1	4077.3	4073.5	4069.7	4062.1	4024.3	4009.1	4005.3	4009.1	3990.2
20°	4024.3	4012.9	4024.3	4020.5	4020.5	4005.3	3967.4	3948.5	3948.5	3948.5	3929.5
22.5°	3940.9	3929.5	3940.9	3948.5	3948.5	3944.6	3910.5	3884.0	3876.5	3876.5	3853.7
25°	3846.2	3834.8	3846.2	3846.2	3842.4	3846.2	3834.8	3819.6	3808.2	3796.8	3774.2
27.5°	3755.2	3747.6	3755.2	3747.6	3755.2	3743.8	3740.1	3736.2	3721.1	3709.8	3679.5
30°	3664.3	3656.7	3664.3	3656.7	3649.1	3641.5	3622.6	3615.0	3630.1	3622.6	3573.3
32.5°	3550.6	3543.0	3550.6	3550.6	3543.0	3543.0	3512.7	3501.4	3505.1	3527.8	3482.3
35°	3433.1	3421.7	3433.1	3429.4	3433.1	3421.7	3402.8	3399.0	3383.9	3410.3	3376.3
37.5°	3296.7	3285.3	3296.7	3296.7	3296.7	3304.3	3289.1	3277.7	3255.0	3289.1	3262.6
40°	3156.5	3141.3	3156.5	3152.7	3156.5	3164.1	3156.5	3148.9	3126.2	3152.7	3129.9
42.5°	2997.3	2993.5	2997.3	3001.2	3001.2	3016.3	3027.7	3012.5	3004.9	2986.0	3001.2
45°	2826.8	2819.2	2826.8	2834.4	2838.2	2845.7	2879.9	2879.9	2868.5	2838.2	2860.9
47.5°	2645.0	2626.0	2645.0	2667.7	2667.7	2679.0	2713.1	2739.7	2720.7	2682.8	2694.2
50°	2451.7	2455.5	2451.7	2466.9	2466.9	2508.5	2535.0	2561.6	2580.5	2535.0	2482.0
52.5°	2262.2	2258.5	2262.2	2273.6	2288.8	2307.7	2353.2	2379.7	2410.0	2383.5	2300.1
55°	2072.7	2080.4	2072.7	2076.5	2084.1	2095.5	2163.7	2190.2	2247.1	2212.9	2125.8
57.5°	1883.3	1871.9	1883.3	1890.9	1894.7	1906.0	1962.9	2012.1	2046.2	2050.0	1943.9
60°	1663.5	1648.3	1663.5	1697.6	1705.2	1712.8	1765.8	1811.3	1841.6	1853.0	1743.1
62.5°	1470.2	1443.8	1470.2	1493.0	1508.2	1527.1	1565.0	1633.2	1659.7	1663.5	1508.2
65°	1265.6	1254.3	1265.6	1311.1	1314.9	1337.6	1379.3	1428.6	1485.4	1477.8	1254.3
67.5°	1080.0	1080.0	1080.0	1110.3	1133.0	1144.3	1197.4	1220.1	1292.1	1299.8	1045.9
70°	909.4	905.6	909.4	932.2	947.3	973.9	1023.1	1049.6	1106.5	1125.4	848.8
72.5°	746.5	742.7	746.5	765.5	780.6	803.3	845.0	875.3	924.5	947.3	659.4
75°	602.5	594.9	602.5	617.7	613.8	644.2	678.3	708.6	754.1	769.2	488.8
77.5°	462.3	462.3	462.3	477.4	477.4	507.7	522.9	560.8	587.4	610.1	360.0
80°	344.8	341.0	344.8	348.7	348.7	363.8	390.3	416.8	439.6	439.6	246.3
82.5°	242.5	234.9	242.5	242.5	242.5	250.1	265.3	272.8	287.9	299.3	155.4
85°	151.5	151.5	151.5	155.4	151.5	159.2	162.9	170.6	170.6	162.9	94.7
87.5°	98.6	94.7	98.6	94.7	94.7	90.9	90.9	90.9	87.2	83.4	53.1
90°	22.5	22.5	22.5	22.5	22.5	29.9	40.0	44.9	38.6	26.0	16.5
92.5°	90.0	72.1	90.0	107.8	112.3	159.2	221.7	253.0	222.1	160.3	114.1
95°	313.6	259.5	313.6	367.7	381.3	500.7	659.8	739.5	624.6	394.6	222.3
97.5°	751.4	648.5	751.4	854.5	880.2	955.6	1056.3	1106.6	914.9	531.6	244.2
100°	1082.7	960.0	1082.7	1205.3	1236.0	1230.5	1223.1	1219.5	1006.8	581.4	262.4
102.5°	1408.5	1303.4	1408.5	1513.5	1539.8	1443.7	1315.5	1251.4	1035.7	604.3	280.8
105°	1824.0	1767.5	1824.0	1880.4	1894.5	1678.9	1391.6	1247.9	1039.0	621.2	307.9
107.5°	2096.0	2109.7	2096.0	2082.5	2079.0	1778.4	1377.4	1176.9	992.8	624.5	348.2
110°	2199.8	2258.6	2199.8	2141.0	2126.2	1790.1	1341.9	1117.9	951.8	619.7	370.6





TEST NUMBER: P934409

CATALOG NUMBER: SQ4-FA-050U-100D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2209.1	2299.5	2209.1	2118.7	2096.1	1752.1	1293.4	1064.0	915.9	619.9	397.8
115°	2150.5	2275.9	2150.5	2025.2	1993.8	1662.4	1220.5	999.6	874.9	625.6	438.6
117.5°	2026.2	2165.2	2026.2	1887.2	1852.5	1553.4	1154.7	955.2	849.2	637.2	478.2
120°	1926.2	2061.2	1926.2	1791.2	1757.4	1484.1	1119.8	937.5	840.6	646.6	501.2
122.5°	1828.7	1961.9	1828.7	1695.5	1662.2	1416.1	1087.9	923.9	836.0	660.3	528.5
125°	1689.6	1812.4	1689.6	1567.0	1536.3	1327.2	1048.5	909.2	832.3	678.7	563.4
127.5°	1564.6	1668.1	1564.6	1461.2	1435.2	1255.7	1016.4	896.7	830.1	696.9	597.0
130°	1491.0	1586.6	1491.0	1395.3	1371.4	1211.6	998.5	892.0	831.4	710.3	619.5
132.5°	1424.1	1509.7	1424.1	1338.4	1317.0	1174.0	983.2	887.8	832.3	721.2	637.8
135°	1332.5	1406.3	1332.5	1258.7	1240.2	1120.4	960.7	880.8	831.5	733.0	659.1
137.5°	1259.0	1319.4	1259.0	1198.5	1183.4	1082.2	947.1	879.6	836.7	750.7	686.3
140°	1208.5	1265.0	1208.5	1152.1	1137.9	1050.5	933.7	875.4	837.5	761.5	704.6
142.5°	1166.8	1215.4	1166.8	1118.1	1106.0	1029.1	926.7	875.4	840.5	770.6	718.2
145°	1104.1	1140.9	1104.1	1067.3	1058.1	995.3	911.5	869.6	840.5	782.5	738.9
147.5°	1056.0	1086.5	1056.0	1025.6	1017.9	968.5	902.6	869.6	846.3	799.8	764.9
150°	1025.7	1050.5	1025.7	1001.0	994.8	953.0	897.4	869.6	849.3	808.9	778.5
152.5°	999.9	1018.5	999.9	981.2	976.6	940.9	893.4	869.6	851.3	814.8	787.4
155°	970.1	982.5	970.1	957.7	954.7	926.3	888.5	869.6	855.6	827.8	806.9
157.5°	946.5	955.2	946.5	937.9	935.7	913.6	884.3	869.6	860.0	840.8	826.4
160°	932.6	937.5	932.6	927.5	926.3	907.3	882.2	869.6	861.9	846.7	835.3
162.5°	923.3	928.1	923.3	918.5	917.4	901.4	880.2	869.6	864.0	853.0	844.7
165°	910.1	915.1	910.1	905.0	903.8	892.4	877.2	869.6	867.1	862.0	858.3
167.5°	900.6	902.7	900.6	898.4	897.9	890.4	880.4	875.4	873.3	869.1	865.9
170°	897.9	897.9	897.9	897.9	897.9	890.4	880.4	875.4	875.3	875.0	874.8
172.5°	890.9	889.1	890.9	892.7	893.2	887.3	879.3	875.4	875.4	875.4	875.4
175°	886.7	886.7	886.7	886.7	886.7	883.0	877.9	875.4	876.6	878.9	880.8
177.5°	882.9	880.8	882.9	885.0	885.5	882.6	878.7	876.7	877.6	879.4	880.8
180°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8



TEST NUMBER: P934409

CATALOG NUMBER: SQ4-FA-050U-100D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4062.1	4039.4	4039.4	4001.5	3986.3	3975.0	3956.0	3899.2	3884.0	3868.8	3891.6
5°	4096.3	4054.6	4024.3	3956.0	3899.2	3876.5	3804.5	3668.1	3577.1	3508.9	3471.0
7.5°	4103.8	4050.8	3993.9	3887.9	3751.4	3690.8	3471.0	3221.0	3152.7	3092.1	3054.1
10°	4096.3	4035.7	3956.0	3796.8	3474.8	3368.7	3148.9	2986.0	2944.3	2932.9	2944.3
12.5°	4069.7	4012.9	3903.0	3637.8	3186.8	3114.8	2986.0	2891.2	2883.7	2902.6	3004.9
15°	4024.3	3971.2	3842.4	3425.5	3027.7	2974.6	2883.7	2849.5	2891.2	3023.8	3330.8
17.5°	3978.8	3918.2	3759.0	3217.1	2906.4	2868.5	2804.0	2872.3	3107.2	3285.3	3387.7
20°	3918.2	3846.2	3664.3	3065.5	2819.2	2785.1	2754.8	3061.8	3239.9	3304.3	3361.1
22.5°	3846.2	3770.4	3535.4	2959.5	2728.3	2701.8	2720.7	3167.9	3239.9	3285.3	3334.6
25°	3751.4	3687.0	3383.9	2876.1	2656.3	2626.0	2698.0	3156.5	3198.2	3209.6	3308.0
27.5°	3664.3	3580.9	3224.7	2800.3	2569.2	2557.8	2717.0	3107.2	3137.6	3148.9	3255.0
30°	3558.1	3433.1	3046.6	2720.7	2478.2	2474.4	2720.7	3046.6	3039.0	3069.3	3175.4
32.5°	3448.3	3213.3	2845.7	2622.2	2391.1	2387.2	2694.2	2955.7	2948.1	2989.8	3069.3
35°	3346.0	3042.9	2573.0	2508.5	2281.2	2284.9	2629.8	2849.5	2853.4	2891.2	2940.5
37.5°	3239.9	2895.1	2273.6	2383.5	2175.1	2175.1	2542.6	2751.1	2743.4	2754.8	2823.1
40°	3114.8	2663.9	2008.4	2220.5	2076.5	2065.2	2436.6	2645.0	2618.4	2614.7	2709.4
42.5°	2982.1	2410.0	1811.3	2004.5	1962.9	1947.7	2307.7	2516.1	2466.9	2478.2	2599.5
45°	2838.2	2341.8	1659.7	1693.8	1845.4	1834.0	2167.4	2368.3	2334.2	2364.6	2489.6
47.5°	2694.2	2205.4	1610.5	1405.8	1720.3	1716.6	2012.1	2224.3	2205.4	2235.7	2368.3
50°	2497.2	2053.8	1606.7	1205.0	1580.2	1595.3	1826.4	2084.1	2084.1	2110.7	2250.8
52.5°	2243.3	1868.1	1458.9	1091.3	1417.2	1462.7	1663.5	1962.9	1970.4	1997.0	2122.0
55°	2012.1	1674.9	1352.7	1004.2	1224.0	1322.4	1504.4	1837.8	1853.0	1879.5	1993.2
57.5°	1800.0	1394.4	1330.1	901.9	1045.9	1140.6	1364.1	1716.6	1724.1	1746.9	1856.7
60°	1572.5	1007.9	1220.1	792.0	890.5	962.5	1235.3	1572.5	1599.1	1614.2	1708.9
62.5°	1314.9	731.3	1106.5	716.1	814.7	829.9	1129.2	1436.1	1470.2	1481.6	1538.5
65°	935.9	613.8	939.7	651.8	735.2	738.9	1015.6	1296.0	1326.3	1345.2	1386.9
67.5°	632.8	500.2	716.1	591.1	674.5	678.3	905.6	1133.0	1174.6	1189.8	1216.4
70°	439.6	333.5	530.5	526.8	606.3	613.8	788.2	985.3	1023.1	1034.5	1049.6
72.5°	322.1	269.0	439.6	473.7	534.3	541.9	666.9	818.5	856.4	867.8	875.3
75°	246.3	284.2	356.2	413.0	454.7	458.5	545.7	666.9	693.5	701.0	704.8
77.5°	197.0	265.3	261.5	333.5	371.3	363.8	428.2	515.4	538.0	538.0	538.0
80°	147.8	208.4	197.0	238.7	272.8	265.3	307.0	367.6	375.1	382.7	379.0
82.5°	109.8	132.6	132.6	151.5	181.9	174.3	204.6	238.7	238.7	238.7	246.3
85°	68.2	75.8	60.6	79.5	102.3	98.6	113.7	128.9	132.6	132.6	125.0
87.5°	41.7	34.1	18.9	30.3	45.5	45.5	53.1	56.9	53.1	53.1	53.1
90°	15.4	10.6	5.9	10.6	15.4	16.5	26.0	38.6	44.9	40.0	29.9
92.5°	104.0	63.8	23.6	63.8	104.0	114.1	160.3	222.1	253.0	221.7	159.2
95°	203.9	130.3	56.8	130.3	203.9	222.3	394.6	624.6	739.5	659.8	500.7
97.5°	227.9	163.0	98.1	163.0	227.9	244.2	531.6	914.9	1106.6	1056.3	955.6
100°	247.7	188.9	130.0	188.9	247.7	262.4	581.4	1006.8	1219.5	1223.1	1230.5
102.5°	267.0	212.1	157.3	212.1	267.0	280.8	604.3	1035.7	1251.4	1315.5	1443.7
105°	296.3	249.8	203.3	249.8	296.3	307.9	621.2	1039.0	1247.9	1391.6	1678.9
107.5°	337.4	294.0	250.7	294.0	337.4	348.2	624.5	992.8	1176.9	1377.4	1778.4
110°	360.9	321.7	282.6	321.7	360.9	370.6	619.7	951.8	1117.9	1341.9	1790.1



TEST NUMBER: P934409

CATALOG NUMBER: SQ4-FA-050U-100D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	388.4	351.1	313.9	351.1	388.4	397.8	619.9	915.9	1064.0	1293.4	1752.1
115°	430.0	395.6	361.2	395.6	430.0	438.6	625.6	874.9	999.6	1220.5	1662.4
117.5°	470.4	439.1	407.8	439.1	470.4	478.2	637.2	849.2	955.2	1154.7	1553.4
120°	493.9	464.5	435.1	464.5	493.9	501.2	646.6	840.6	937.5	1119.8	1484.1
122.5°	521.0	491.4	461.7	491.4	521.0	528.5	660.3	836.0	923.9	1087.9	1416.1
125°	556.6	529.5	502.5	529.5	556.6	563.4	678.7	832.3	909.2	1048.5	1327.2
127.5°	590.2	562.9	535.6	562.9	590.2	597.0	696.9	830.1	896.7	1016.4	1255.7
130°	612.1	582.8	553.3	582.8	612.1	619.5	710.3	831.4	892.0	998.5	1211.6
132.5°	630.5	601.0	571.6	601.0	630.5	637.8	721.2	832.3	887.8	983.2	1174.0
135°	652.4	625.6	598.8	625.6	652.4	659.1	733.0	831.5	880.8	960.7	1120.4
137.5°	679.7	653.1	626.6	653.1	679.7	686.3	750.7	836.7	879.6	947.1	1082.2
140°	698.5	674.1	649.6	674.1	698.5	704.6	761.5	837.5	875.4	933.7	1050.5
142.5°	712.6	689.9	667.4	689.9	712.6	718.2	770.6	840.5	875.4	926.7	1029.1
145°	733.9	714.2	694.5	714.2	733.9	738.9	782.5	840.5	869.6	911.5	995.3
147.5°	760.1	740.9	721.8	740.9	760.1	764.9	799.8	846.3	869.6	902.6	968.5
150°	774.2	756.8	739.5	756.8	774.2	778.5	808.9	849.3	869.6	897.4	953.0
152.5°	784.1	770.9	757.8	770.9	784.1	787.4	814.8	851.3	869.6	893.4	940.9
155°	804.5	794.7	785.0	794.7	804.5	806.9	827.8	855.6	869.6	888.5	926.3
157.5°	824.0	814.6	805.1	814.6	824.0	826.4	840.8	860.0	869.6	884.3	913.6
160°	833.4	826.1	818.7	826.1	833.4	835.3	846.7	861.9	869.6	882.2	907.3
162.5°	843.4	837.8	832.3	837.8	843.4	844.7	853.0	864.0	869.6	880.2	901.4
165°	857.1	852.1	847.1	852.1	857.1	858.3	862.0	867.1	869.6	877.2	892.4
167.5°	865.4	863.0	860.7	863.0	865.4	865.9	869.1	873.3	875.4	880.4	890.4
170°	874.3	871.9	869.6	871.9	874.3	874.8	875.0	875.3	875.4	880.4	890.4
172.5°	875.3	874.7	874.3	874.7	875.3	875.4	875.4	875.4	875.4	879.3	887.3
175°	880.8	880.8	880.8	880.8	880.8	880.8	878.9	876.6	875.4	877.9	883.0
177.5°	880.8	880.8	880.8	880.8	880.8	880.8	879.4	877.6	876.7	878.7	882.6
180°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8



TEST NUMBER: P934409

CATALOG NUMBER: SQ4-FA-050U-100D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	3865.1	3853.7	3868.8	3827.2	3868.8	3853.7	3865.1	3891.6	3868.8	3884.0	3899.2
5°	3391.4	3372.5	3311.9	3262.6	3311.9	3372.5	3391.4	3471.0	3508.9	3577.1	3668.1
7.5°	3031.5	3016.3	3001.2	2970.8	3001.2	3016.3	3031.5	3054.1	3092.1	3152.7	3221.0
10°	2951.8	2955.7	2978.4	2974.6	2978.4	2955.7	2951.8	2944.3	2932.9	2944.3	2986.0
12.5°	3156.5	3190.6	3315.6	3308.0	3315.6	3190.6	3156.5	3004.9	2902.6	2883.7	2891.2
15°	3391.4	3402.8	3429.4	3433.1	3429.4	3402.8	3391.4	3330.8	3023.8	2891.2	2849.5
17.5°	3414.2	3418.0	3436.9	3436.9	3436.9	3418.0	3414.2	3387.7	3285.3	3107.2	2872.3
20°	3395.2	3402.8	3440.6	3448.3	3440.6	3402.8	3395.2	3361.1	3304.3	3239.9	3061.8
22.5°	3387.7	3402.8	3433.1	3429.4	3433.1	3402.8	3387.7	3334.6	3285.3	3239.9	3167.9
25°	3349.7	3349.7	3353.6	3357.3	3353.6	3349.7	3349.7	3308.0	3209.6	3198.2	3156.5
27.5°	3270.2	3277.7	3300.5	3296.7	3300.5	3277.7	3270.2	3255.0	3148.9	3137.6	3107.2
30°	3198.2	3190.6	3171.6	3156.5	3171.6	3190.6	3198.2	3175.4	3069.3	3039.0	3046.6
32.5°	3076.9	3058.0	3039.0	3027.7	3039.0	3058.0	3076.9	3069.3	2989.8	2948.1	2955.7
35°	2932.9	2936.7	2932.9	2921.5	2932.9	2936.7	2932.9	2940.5	2891.2	2853.4	2849.5
37.5°	2830.6	2838.2	2834.4	2819.2	2834.4	2838.2	2830.6	2823.1	2754.8	2743.4	2751.1
40°	2724.5	2728.3	2724.5	2713.1	2724.5	2728.3	2724.5	2709.4	2614.7	2618.4	2645.0
42.5°	2622.2	2618.4	2607.0	2599.5	2607.0	2618.4	2622.2	2599.5	2478.2	2466.9	2516.1
45°	2504.7	2508.5	2485.8	2474.4	2485.8	2508.5	2504.7	2489.6	2364.6	2334.2	2368.3
47.5°	2387.2	2387.2	2368.3	2356.9	2368.3	2387.2	2387.2	2368.3	2235.7	2205.4	2224.3
50°	2262.2	2258.5	2231.9	2228.1	2231.9	2258.5	2262.2	2250.8	2110.7	2084.1	2084.1
52.5°	2118.2	2118.2	2122.0	2129.6	2122.0	2118.2	2118.2	2122.0	1997.0	1970.4	1962.9
55°	1993.2	1997.0	2023.5	2031.0	2023.5	1997.0	1993.2	1993.2	1879.5	1853.0	1837.8
57.5°	1864.3	1864.3	1883.3	1883.3	1883.3	1864.3	1864.3	1856.7	1746.9	1724.1	1716.6
60°	1716.6	1724.1	1739.3	1735.5	1739.3	1724.1	1716.6	1708.9	1614.2	1599.1	1572.5
62.5°	1561.1	1568.8	1572.5	1565.0	1572.5	1568.8	1561.1	1538.5	1481.6	1470.2	1436.1
65°	1398.2	1405.8	1409.6	1402.1	1409.6	1405.8	1398.2	1386.9	1345.2	1326.3	1296.0
67.5°	1231.5	1227.7	1224.0	1239.1	1224.0	1227.7	1231.5	1216.4	1189.8	1174.6	1133.0
70°	1061.0	1061.0	1057.2	1064.8	1057.2	1061.0	1061.0	1049.6	1034.5	1023.1	985.3
72.5°	879.1	875.3	890.5	879.1	890.5	875.3	879.1	875.3	867.8	856.4	818.5
75°	701.0	708.6	701.0	712.4	701.0	708.6	701.0	704.8	701.0	693.5	666.9
77.5°	534.3	541.9	534.3	534.3	534.3	541.9	534.3	538.0	538.0	538.0	515.4
80°	379.0	375.1	375.1	371.3	375.1	375.1	379.0	379.0	382.7	375.1	367.6
82.5°	242.5	238.7	238.7	246.3	238.7	238.7	242.5	246.3	238.7	238.7	238.7
85°	132.6	136.4	128.9	128.9	128.9	136.4	132.6	125.0	132.6	132.6	128.9
87.5°	49.2	45.5	45.5	45.5	45.5	45.5	49.2	53.1	53.1	53.1	56.9
90°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	29.9	40.0	44.9	38.6
92.5°	112.3	107.8	90.0	72.1	90.0	107.8	112.3	159.2	221.7	253.0	222.1
95°	381.3	367.7	313.6	259.5	313.6	367.7	381.3	500.7	659.8	739.5	624.6
97.5°	880.2	854.5	751.4	648.5	751.4	854.5	880.2	955.6	1056.3	1106.6	914.9
100°	1236.0	1205.3	1082.7	960.0	1082.7	1205.3	1236.0	1230.5	1223.1	1219.5	1006.8
102.5°	1539.8	1513.5	1408.5	1303.4	1408.5	1513.5	1539.8	1443.7	1315.5	1251.4	1035.7
105°	1894.5	1880.4	1824.0	1767.5	1824.0	1880.4	1894.5	1678.9	1391.6	1247.9	1039.0
107.5°	2079.0	2082.5	2096.0	2109.7	2096.0	2082.5	2079.0	1778.4	1377.4	1176.9	992.8
110°	2126.2	2141.0	2199.8	2258.6	2199.8	2141.0	2126.2	1790.1	1341.9	1117.9	951.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2096.1	2118.7	2209.1	2299.5	2209.1	2118.7	2096.1	1752.1	1293.4	1064.0	915.9
115°	1993.8	2025.2	2150.5	2275.9	2150.5	2025.2	1993.8	1662.4	1220.5	999.6	874.9
117.5°	1852.5	1887.2	2026.2	2165.2	2026.2	1887.2	1852.5	1553.4	1154.7	955.2	849.2
120°	1757.4	1791.2	1926.2	2061.2	1926.2	1791.2	1757.4	1484.1	1119.8	937.5	840.6
122.5°	1662.2	1695.5	1828.7	1961.9	1828.7	1695.5	1662.2	1416.1	1087.9	923.9	836.0
125°	1536.3	1567.0	1689.6	1812.4	1689.6	1567.0	1536.3	1327.2	1048.5	909.2	832.3
127.5°	1435.2	1461.2	1564.6	1668.1	1564.6	1461.2	1435.2	1255.7	1016.4	896.7	830.1
130°	1371.4	1395.3	1491.0	1586.6	1491.0	1395.3	1371.4	1211.6	998.5	892.0	831.4
132.5°	1317.0	1338.4	1424.1	1509.7	1424.1	1338.4	1317.0	1174.0	983.2	887.8	832.3
135°	1240.2	1258.7	1332.5	1406.3	1332.5	1258.7	1240.2	1120.4	960.7	880.8	831.5
137.5°	1183.4	1198.5	1259.0	1319.4	1259.0	1198.5	1183.4	1082.2	947.1	879.6	836.7
140°	1137.9	1152.1	1208.5	1265.0	1208.5	1152.1	1137.9	1050.5	933.7	875.4	837.5
142.5°	1106.0	1118.1	1166.8	1215.4	1166.8	1118.1	1106.0	1029.1	926.7	875.4	840.5
145°	1058.1	1067.3	1104.1	1140.9	1104.1	1067.3	1058.1	995.3	911.5	869.6	840.5
147.5°	1017.9	1025.6	1056.0	1086.5	1056.0	1025.6	1017.9	968.5	902.6	869.6	846.3
150°	994.8	1001.0	1025.7	1050.5	1025.7	1001.0	994.8	953.0	897.4	869.6	849.3
152.5°	976.6	981.2	999.9	1018.5	999.9	981.2	976.6	940.9	893.4	869.6	851.3
155°	954.7	957.7	970.1	982.5	970.1	957.7	954.7	926.3	888.5	869.6	855.6
157.5°	935.7	937.9	946.5	955.2	946.5	937.9	935.7	913.6	884.3	869.6	860.0
160°	926.3	927.5	932.6	937.5	932.6	927.5	926.3	907.3	882.2	869.6	861.9
162.5°	917.4	918.5	923.3	928.1	923.3	918.5	917.4	901.4	880.2	869.6	864.0
165°	903.8	905.0	910.1	915.1	910.1	905.0	903.8	892.4	877.2	869.6	867.1
167.5°	897.9	898.4	900.6	902.7	900.6	898.4	897.9	890.4	880.4	875.4	873.3
170°	897.9	897.9	897.9	897.9	897.9	897.9	897.9	890.4	880.4	875.4	875.3
172.5°	893.2	892.7	890.9	889.1	890.9	892.7	893.2	887.3	879.3	875.4	875.4
175°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	883.0	877.9	875.4	876.6
177.5°	885.5	885.0	882.9	880.8	882.9	885.0	885.5	882.6	878.7	876.7	877.6
180°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	3956.0	3975.0	3986.3	4001.5	4039.4
5°	3804.5	3876.5	3899.2	3956.0	4024.3
7.5°	3471.0	3690.8	3751.4	3887.9	3993.9
10°	3148.9	3368.7	3474.8	3796.8	3956.0
12.5°	2986.0	3114.8	3186.8	3637.8	3903.0
15°	2883.7	2974.6	3027.7	3425.5	3842.4
17.5°	2804.0	2868.5	2906.4	3217.1	3759.0
20°	2754.8	2785.1	2819.2	3065.5	3664.3
22.5°	2720.7	2701.8	2728.3	2959.5	3535.4
25°	2698.0	2626.0	2656.3	2876.1	3383.9
27.5°	2717.0	2557.8	2569.2	2800.3	3224.7
30°	2720.7	2474.4	2478.2	2720.7	3046.6
32.5°	2694.2	2387.2	2391.1	2622.2	2845.7
35°	2629.8	2284.9	2281.2	2508.5	2573.0
37.5°	2542.6	2175.1	2175.1	2383.5	2273.6
40°	2436.6	2065.2	2076.5	2220.5	2008.4
42.5°	2307.7	1947.7	1962.9	2004.5	1811.3
45°	2167.4	1834.0	1845.4	1693.8	1659.7
47.5°	2012.1	1716.6	1720.3	1405.8	1610.5
50°	1826.4	1595.3	1580.2	1205.0	1606.7
52.5°	1663.5	1462.7	1417.2	1091.3	1458.9
55°	1504.4	1322.4	1224.0	1004.2	1352.7
57.5°	1364.1	1140.6	1045.9	901.9	1330.1
60°	1235.3	962.5	890.5	792.0	1220.1
62.5°	1129.2	829.9	814.7	716.1	1106.5
65°	1015.6	738.9	735.2	651.8	939.7
67.5°	905.6	678.3	674.5	591.1	716.1
70°	788.2	613.8	606.3	526.8	530.5
72.5°	666.9	541.9	534.3	473.7	439.6
75°	545.7	458.5	454.7	413.0	356.2
77.5°	428.2	363.8	371.3	333.5	261.5
80°	307.0	265.3	272.8	238.7	197.0
82.5°	204.6	174.3	181.9	151.5	132.6
85°	113.7	98.6	102.3	79.5	60.6
87.5°	53.1	45.5	45.5	30.3	18.9
90°	26.0	16.5	15.4	10.6	5.9
92.5°	160.3	114.1	104.0	63.8	23.6
95°	394.6	222.3	203.9	130.3	56.8
97.5°	531.6	244.2	227.9	163.0	98.1
100°	581.4	262.4	247.7	188.9	130.0
102.5°	604.3	280.8	267.0	212.1	157.3
105°	621.2	307.9	296.3	249.8	203.3
107.5°	624.5	348.2	337.4	294.0	250.7
110°	619.7	370.6	360.9	321.7	282.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	619.9	397.8	388.4	351.1	313.9
115°	625.6	438.6	430.0	395.6	361.2
117.5°	637.2	478.2	470.4	439.1	407.8
120°	646.6	501.2	493.9	464.5	435.1
122.5°	660.3	528.5	521.0	491.4	461.7
125°	678.7	563.4	556.6	529.5	502.5
127.5°	696.9	597.0	590.2	562.9	535.6
130°	710.3	619.5	612.1	582.8	553.3
132.5°	721.2	637.8	630.5	601.0	571.6
135°	733.0	659.1	652.4	625.6	598.8
137.5°	750.7	686.3	679.7	653.1	626.6
140°	761.5	704.6	698.5	674.1	649.6
142.5°	770.6	718.2	712.6	689.9	667.4
145°	782.5	738.9	733.9	714.2	694.5
147.5°	799.8	764.9	760.1	740.9	721.8
150°	808.9	778.5	774.2	756.8	739.5
152.5°	814.8	787.4	784.1	770.9	757.8
155°	827.8	806.9	804.5	794.7	785.0
157.5°	840.8	826.4	824.0	814.6	805.1
160°	846.7	835.3	833.4	826.1	818.7
162.5°	853.0	844.7	843.4	837.8	832.3
165°	862.0	858.3	857.1	852.1	847.1
167.5°	869.1	865.9	865.4	863.0	860.7
170°	875.0	874.8	874.3	871.9	869.6
172.5°	875.4	875.4	875.3	874.7	874.3
175°	878.9	880.8	880.8	880.8	880.8
177.5°	879.4	880.8	880.8	880.8	880.8
180°	880.8	880.8	880.8	880.8	880.8



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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	14.80	15.81	15.62	16.65	17.70	17.65	18.66	18.47	19.50	20.55
	3H	15.29	16.19	16.12	17.05	18.12	19.01	19.92	19.85	20.77	21.85
	4H	15.49	16.34	16.34	17.20	18.29	19.47	20.32	20.32	21.18	22.27
	6H	15.61	16.40	16.48	17.27	18.37	19.77	20.56	20.63	21.42	22.52
	8H	15.62	16.37	16.49	17.25	18.35	19.85	20.60	20.72	21.49	22.59
	12H	15.59	16.31	16.47	17.19	18.31	19.90	20.61	20.77	21.49	22.62
4H	2H	15.85	16.71	16.71	17.57	18.66	18.08	18.93	18.93	19.79	20.88
	3H	16.90	17.61	17.76	18.50	19.60	19.60	20.31	20.47	21.21	22.31
	4H	17.18	17.83	18.06	18.72	19.84	20.14	20.79	21.02	21.68	22.81
	6H	17.31	17.87	18.21	18.79	19.92	20.52	21.08	21.42	21.99	23.13
	8H	17.32	17.84	18.22	18.75	19.90	20.63	21.16	21.53	22.07	23.21
	12H	17.29	17.77	18.21	18.69	19.84	20.70	21.17	21.62	22.10	23.25
8H	4H	17.65	18.17	18.54	19.08	20.22	20.28	20.80	21.17	21.71	22.85
	6H	17.91	18.35	18.84	19.30	20.44	20.73	21.16	21.65	22.11	23.25
	8H	17.96	18.34	18.89	19.28	20.45	20.88	21.27	21.82	22.21	23.37
	12H	17.95	18.29	18.89	19.22	20.43	20.99	21.33	21.93	22.26	23.48
12H	4H	17.66	18.13	18.58	19.06	20.21	20.25	20.72	21.17	21.65	22.80
	6H	17.98	18.36	18.91	19.30	20.46	20.72	21.11	21.66	22.05	23.21
	8H	18.05	18.39	18.99	19.32	20.54	20.90	21.23	21.83	22.17	23.38