

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: P936169

Luminaire Tested: SQ4-FA-150U-125D-935-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

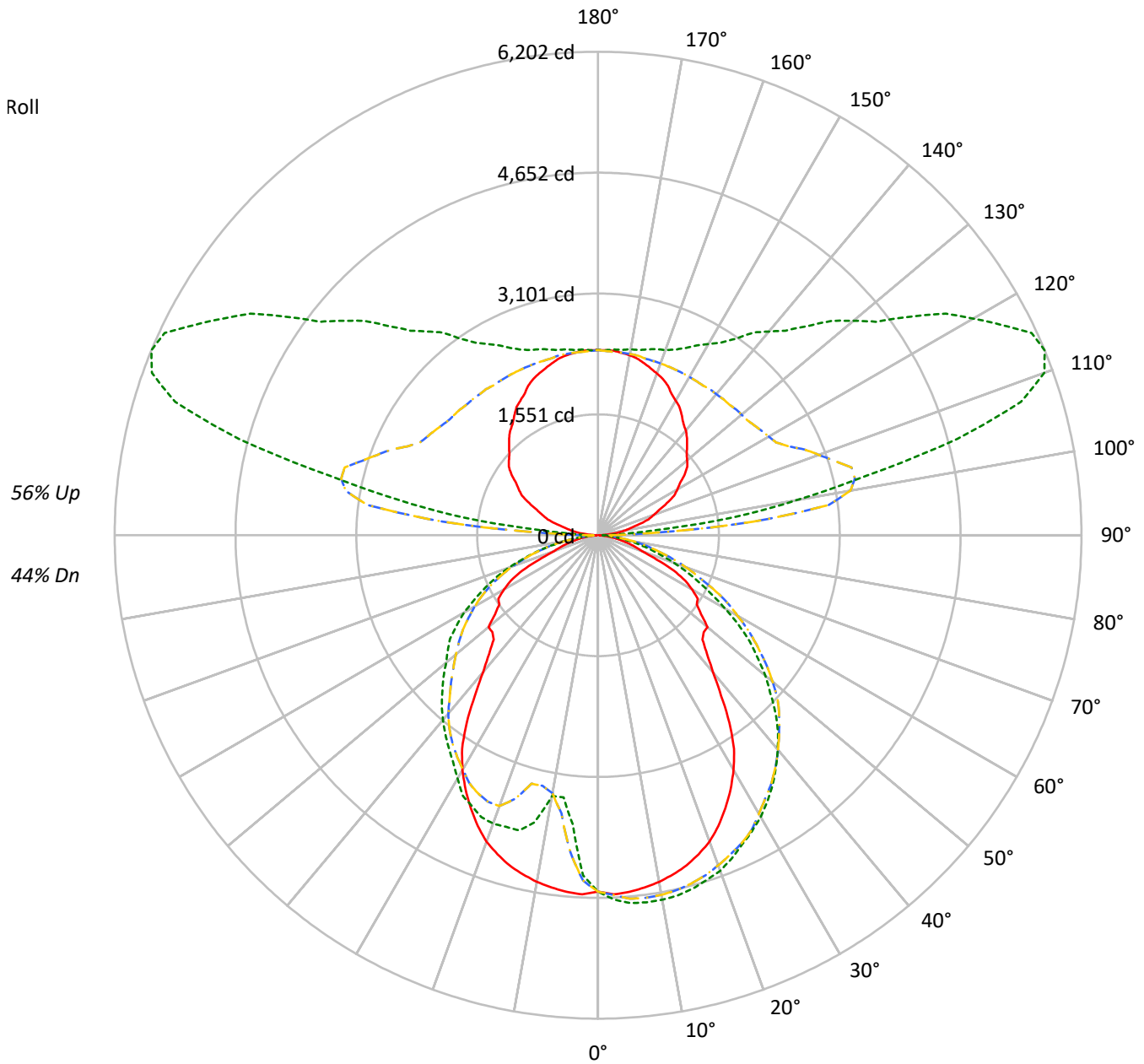
Test Method: LM-79-2019  
Report Number: P936169  
REPORT IS A COMBINATION OF REPORTS P933781 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27261.4 lumens  
Efficiency: N/A  
Efficacy: 109.2 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: General Diffuse  
  
Input Watts (W): 249.6  
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

TEST NUMBER: P936169  
CATALOG NUMBER: SQ4-FA-150U-125D-935-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	37	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	31	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11	11	11	11

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

	0°	90°	180°	270°
0°	14141	14141	14141	14141
5°	14252	14275	14252	11224
10°	14162	14061	14162	10053
15°	14013	13757	14013	11487
20°	13726	13396	13726	11511
25°	13131	12869	13131	11267
30°	12361	12432	12361	10732
35°	11025	11879	11025	10143
40°	9192	11229	9192	9698
45°	8218	10467	8218	9187
50°	8738	9558	8738	8673
55°	8229	8580	8229	8377
60°	8493	7287	8493	7672
65°	7713	6024	7713	6733
70°	5353	4800	5353	5644
75°	4713	3548	4713	4249
80°	3825	2346	3825	2555
85°	2242	1242	2242	1056

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 12588 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.7	1.5
10°-20°	1171.7	4.3
20°-30°	1811.3	6.6
30°-40°	2162.3	7.9
40°-50°	2175.0	8.0
50°-60°	1892.5	6.9
60°-70°	1341.8	4.9
70°-80°	709.9	2.6
80°-90°	185.9	0.7
90°-100°	1157.9	4.2
100°-110°	3044.1	11.2
110°-120°	3156.4	11.6
120°-130°	2531.8	9.3
130°-140°	1986.6	7.3
140°-150°	1524.8	5.6
150°-160°	1098.1	4.0
160°-170°	671.9	2.5
170°-180°	227.0	0.8
0°-30°	3395.7	12.5
0°-40°	5558.0	20.4
0°-60°	9625.4	35.3
0°-90°	11862.9	43.5
90°-120°	7358.3	27.0
90°-150°	13401.5	49.2
90°-180°	15398.0	56.5
0°-180°	27261.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4572	4572	4572	4572	4572	
5°	4593	4736	4593	3724	4593	436
15°	4386	4693	4386	3919	4386	1234
25°	3862	4377	3862	3832	3862	1773
35°	2937	3906	2937	3335	2937	1817
45°	1894	3218	1894	2824	1894	1518
55°	1544	2375	1544	2318	1544	1419
65°	1073	1432	1073	1600	1073	1025
75°	407	679	407	813	407	427
85°	69	173	69	147	69	93
90°	16	61	16	61	16	16
95°	153	700	153	700	153	170
105°	548	4767	548	4767	548	581
115°	974	6138	974	6138	974	962
125°	1355	4888	1355	4888	1355	1203
135°	1615	3793	1615	3793	1615	1249
145°	1873	3077	1873	3077	1873	1174
155°	2117	2650	2117	2650	2117	973
165°	2284	2468	2284	2468	2284	645
175°	2375	2391	2375	2391	2375	225
180°	2375	2375	2375	2375	2375	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8
2.5°	4610.8	4610.8	4636.7	4645.4	4645.4	4632.3	4619.4	4632.3	4671.3	4684.3	4680.0
5°	4593.4	4628.1	4675.6	4684.3	4692.9	4688.6	4680.0	4688.6	4731.8	4740.5	4744.8
7.5°	4558.8	4623.7	4684.3	4697.2	4710.2	4697.2	4692.9	4701.6	4744.8	4753.5	4753.5
10°	4515.6	4606.4	4675.6	4684.3	4697.2	4684.3	4684.3	4701.6	4744.8	4753.5	4757.8
12.5°	4455.0	4580.4	4645.4	4654.0	4671.3	4666.9	4662.7	4680.0	4723.1	4731.8	4731.8
15°	4385.8	4532.9	4593.4	4602.1	4632.3	4623.7	4623.7	4641.0	4688.6	4701.6	4697.2
17.5°	4290.7	4472.3	4541.5	4554.5	4576.1	4571.8	4576.1	4593.4	4636.7	4645.4	4649.6
20°	4182.6	4390.1	4472.3	4485.3	4506.9	4506.9	4506.9	4528.6	4571.8	4589.1	4589.1
22.5°	4035.5	4303.6	4390.1	4398.8	4424.8	4424.8	4433.4	4463.6	4502.6	4506.9	4506.9
25°	3862.5	4208.5	4282.0	4308.0	4334.0	4346.9	4359.9	4377.2	4390.1	4385.8	4390.1
27.5°	3680.8	4087.4	4182.6	4199.8	4234.4	4247.4	4264.7	4269.0	4273.4	4286.3	4277.7
30°	3477.5	3918.7	4061.4	4078.7	4134.9	4143.6	4126.3	4134.9	4156.6	4165.3	4173.9
32.5°	3248.2	3667.9	3936.0	3974.9	4026.8	4000.9	3996.6	4009.5	4044.1	4044.1	4052.8
35°	2936.8	3473.2	3819.2	3853.8	3892.7	3862.5	3879.8	3884.1	3905.7	3918.7	3914.3
37.5°	2595.2	3304.5	3698.1	3724.1	3754.3	3715.4	3741.4	3754.3	3771.6	3762.9	3762.9
40°	2292.4	3040.6	3555.4	3572.7	3598.6	3568.3	3594.3	3602.9	3611.6	3602.9	3598.6
42.5°	2067.5	2750.9	3404.0	3425.6	3408.3	3429.9	3438.6	3455.9	3442.9	3425.6	3425.6
45°	1894.4	2673.0	3239.6	3265.5	3239.6	3274.2	3287.2	3287.2	3248.2	3239.6	3235.3
47.5°	1838.3	2517.3	3075.3	3075.3	3062.3	3105.5	3127.2	3096.8	3058.0	3045.0	3045.0
50°	1833.9	2344.3	2850.4	2833.1	2893.6	2945.5	2923.9	2893.6	2863.3	2815.8	2815.8
52.5°	1665.2	2132.4	2560.5	2625.4	2720.6	2750.9	2716.3	2686.0	2634.0	2612.5	2595.2
55°	1544.1	1911.8	2296.7	2426.5	2525.9	2564.9	2500.0	2469.7	2391.9	2378.9	2370.3
57.5°	1518.2	1591.7	2054.5	2218.9	2339.9	2335.7	2296.7	2240.5	2175.6	2162.6	2158.3
60°	1392.8	1150.5	1795.0	1989.6	2115.1	2102.1	2067.5	2015.6	1955.0	1946.4	1937.7
62.5°	1263.0	834.8	1500.9	1721.5	1898.8	1894.4	1864.2	1786.3	1743.1	1721.5	1704.2
65°	1072.7	700.7	1068.3	1431.7	1686.9	1695.5	1630.6	1574.4	1526.8	1500.9	1496.5
67.5°	817.5	570.9	722.3	1193.7	1483.6	1474.9	1392.8	1366.8	1306.2	1293.3	1267.3
70°	605.5	380.6	501.7	968.9	1284.6	1263.0	1198.1	1167.8	1111.6	1081.3	1064.0
72.5°	501.7	307.1	367.6	752.6	1081.3	1055.4	999.1	964.5	916.9	891.0	873.7
75°	406.6	324.4	281.2	558.0	878.0	860.7	808.8	774.2	735.3	700.7	705.0
77.5°	298.5	302.8	224.9	410.9	696.3	670.4	640.1	596.9	579.6	545.0	545.0
80°	224.9	237.9	168.7	281.2	501.7	501.7	475.8	445.5	415.3	397.9	397.9
82.5°	151.4	151.4	125.4	177.3	341.7	328.7	311.4	302.8	285.5	276.8	276.8
85°	69.2	86.5	77.9	108.1	186.0	194.6	194.6	186.0	181.6	173.0	177.3
87.5°	21.6	38.9	47.5	60.6	95.2	99.5	103.8	103.8	103.8	108.1	108.1
90°	15.9	28.7	41.5	44.6	70.1	104.1	121.2	107.7	80.8	60.6	60.6
92.5°	63.7	172.1	280.6	307.7	432.6	599.0	682.3	597.9	429.3	302.9	290.9
95°	153.0	351.4	549.8	599.4	1064.4	1684.4	1994.4	1779.7	1350.3	1028.3	991.8
97.5°	264.6	439.6	614.6	658.4	1433.7	2467.5	2984.3	2848.7	2577.3	2373.8	2304.3
100°	350.7	509.4	668.1	707.8	1568.2	2715.2	3288.8	3298.7	3318.5	3333.4	3250.7
102.5°	424.0	572.1	720.2	757.3	1629.8	2793.2	3374.9	3547.8	3893.6	4152.9	4082.0
105°	548.4	673.8	799.3	830.6	1675.5	2802.1	3365.3	3752.9	4528.0	5109.4	5071.3
107.5°	676.0	792.9	909.8	939.0	1684.0	2677.3	3174.0	3714.6	4795.8	5606.8	5616.0
110°	762.0	867.6	973.2	999.6	1671.3	2566.8	3014.6	3619.0	4827.8	5734.3	5774.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	846.5	947.2	1047.8	1072.9	1671.8	2470.3	2869.5	3488.1	4725.2	5653.0	5713.9
115°	974.1	1066.9	1159.7	1182.9	1687.2	2359.6	2695.8	3291.7	4483.4	5377.2	5461.7
117.5°	1100.0	1184.3	1268.6	1289.7	1718.5	2290.3	2576.2	3114.0	4189.5	4996.2	5089.9
120°	1173.3	1252.7	1332.0	1351.9	1744.0	2266.9	2528.4	3019.7	4002.4	4739.5	4830.6
122.5°	1245.0	1325.1	1405.2	1425.2	1780.8	2254.7	2491.8	2934.2	3819.2	4482.9	4572.7
125°	1355.1	1428.0	1501.1	1519.3	1830.2	2244.7	2451.9	2827.8	3579.5	4143.3	4226.0
127.5°	1444.3	1518.0	1591.7	1610.1	1879.5	2238.8	2418.4	2741.1	3386.6	3870.7	3940.5
130°	1492.2	1571.5	1650.8	1670.7	1915.6	2242.3	2405.6	2692.9	3267.6	3698.5	3763.0
132.5°	1541.6	1620.9	1700.3	1720.1	1944.9	2244.6	2394.5	2651.7	3166.1	3551.9	3609.7
135°	1614.9	1687.1	1759.5	1777.5	1976.8	2242.5	2375.4	2590.8	3021.5	3344.6	3394.4
137.5°	1689.9	1761.4	1833.0	1850.9	2024.6	2256.3	2372.1	2554.2	2918.4	3191.6	3232.3
140°	1752.1	1817.9	1883.9	1900.3	2053.8	2258.6	2361.0	2518.3	2832.9	3068.8	3106.9
142.5°	1799.8	1860.8	1921.7	1936.9	2078.3	2266.7	2361.0	2499.2	2775.5	2982.8	3015.6
145°	1873.2	1926.4	1979.5	1992.7	2110.1	2266.7	2345.0	2458.0	2684.1	2853.6	2878.4
147.5°	1946.5	1998.2	2049.9	2062.9	2156.9	2282.3	2345.0	2434.0	2611.8	2745.2	2765.8
150°	1994.4	2041.1	2087.9	2099.6	2181.4	2290.5	2345.0	2420.2	2570.4	2683.0	2699.6
152.5°	2043.8	2079.2	2114.6	2123.4	2197.3	2295.8	2345.0	2409.2	2537.4	2633.6	2646.2
155°	2117.1	2143.4	2169.5	2176.1	2232.4	2307.5	2345.0	2396.1	2498.1	2574.7	2583.0
157.5°	2171.3	2196.8	2222.3	2228.7	2267.4	2319.1	2345.0	2384.7	2464.1	2523.6	2529.5
160°	2208.0	2227.8	2247.7	2252.6	2283.4	2324.5	2345.0	2379.0	2447.0	2498.1	2501.5
162.5°	2244.6	2259.5	2274.3	2278.1	2300.4	2330.1	2345.0	2373.8	2431.2	2474.2	2477.4
165°	2284.5	2297.9	2311.4	2314.8	2324.9	2338.3	2345.0	2365.6	2406.6	2437.5	2440.9
167.5°	2321.2	2327.6	2333.9	2335.5	2344.0	2355.4	2361.0	2374.4	2401.4	2421.6	2423.0
170°	2345.0	2351.4	2357.8	2359.4	2360.0	2360.6	2361.0	2374.4	2401.4	2421.6	2421.6
172.5°	2357.8	2359.2	2360.6	2361.0	2361.0	2361.0	2361.0	2371.6	2392.9	2408.9	2407.6
175°	2375.4	2375.4	2375.4	2375.4	2370.6	2364.2	2361.0	2367.7	2381.2	2391.3	2391.3
177.5°	2375.4	2375.4	2375.4	2375.4	2371.6	2366.7	2364.2	2369.5	2380.1	2388.1	2386.6
180°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8
2.5°	4688.6	4675.6	4688.6	4680.0	4684.3	4671.3	4632.3	4619.4	4632.3	4645.4	4645.4
5°	4744.8	4736.2	4744.8	4744.8	4740.5	4731.8	4688.6	4680.0	4688.6	4692.9	4684.3
7.5°	4762.1	4749.1	4762.1	4753.5	4753.5	4744.8	4701.6	4692.9	4697.2	4710.2	4697.2
10°	4762.1	4749.1	4762.1	4757.8	4753.5	4744.8	4701.6	4684.3	4684.3	4697.2	4684.3
12.5°	4740.5	4731.8	4740.5	4731.8	4731.8	4723.1	4680.0	4662.7	4666.9	4671.3	4654.0
15°	4705.9	4692.9	4705.9	4697.2	4701.6	4688.6	4641.0	4623.7	4623.7	4632.3	4602.1
17.5°	4654.0	4636.7	4654.0	4649.6	4645.4	4636.7	4593.4	4576.1	4571.8	4576.1	4554.5
20°	4593.4	4580.4	4593.4	4589.1	4589.1	4571.8	4528.6	4506.9	4506.9	4506.9	4485.3
22.5°	4498.3	4485.3	4498.3	4506.9	4506.9	4502.6	4463.6	4433.4	4424.8	4424.8	4398.8
25°	4390.1	4377.2	4390.1	4390.1	4385.8	4390.1	4377.2	4359.9	4346.9	4334.0	4308.0
27.5°	4286.3	4277.7	4286.3	4277.7	4286.3	4273.4	4269.0	4264.7	4247.4	4234.4	4199.8
30°	4182.6	4173.9	4182.6	4173.9	4165.3	4156.6	4134.9	4126.3	4143.6	4134.9	4078.7
32.5°	4052.8	4044.1	4052.8	4052.8	4044.1	4044.1	4009.5	3996.6	4000.9	4026.8	3974.9
35°	3918.7	3905.7	3918.7	3914.3	3918.7	3905.7	3884.1	3879.8	3862.5	3892.7	3853.8
37.5°	3762.9	3750.0	3762.9	3762.9	3762.9	3771.6	3754.3	3741.4	3715.4	3754.3	3724.1
40°	3602.9	3585.6	3602.9	3598.6	3602.9	3611.6	3602.9	3594.3	3568.3	3598.6	3572.7
42.5°	3421.3	3416.9	3421.3	3425.6	3425.6	3442.9	3455.9	3438.6	3429.9	3408.3	3425.6
45°	3226.6	3218.0	3226.6	3235.3	3239.6	3248.2	3287.2	3287.2	3274.2	3239.6	3265.5
47.5°	3019.1	2997.4	3019.1	3045.0	3045.0	3058.0	3096.8	3127.2	3105.5	3062.3	3075.3
50°	2798.5	2802.7	2798.5	2815.8	2815.8	2863.3	2893.6	2923.9	2945.5	2893.6	2833.1
52.5°	2582.2	2577.9	2582.2	2595.2	2612.5	2634.0	2686.0	2716.3	2750.9	2720.6	2625.4
55°	2365.9	2374.6	2365.9	2370.3	2378.9	2391.9	2469.7	2500.0	2564.9	2525.9	2426.5
57.5°	2149.7	2136.6	2149.7	2158.3	2162.6	2175.6	2240.5	2296.7	2335.7	2339.9	2218.9
60°	1898.8	1881.5	1898.8	1937.7	1946.4	1955.0	2015.6	2067.5	2102.1	2115.1	1989.6
62.5°	1678.2	1647.9	1678.2	1704.2	1721.5	1743.1	1786.3	1864.2	1894.4	1898.8	1721.5
65°	1444.7	1431.7	1444.7	1496.5	1500.9	1526.8	1574.4	1630.6	1695.5	1686.9	1431.7
67.5°	1232.7	1232.7	1232.7	1267.3	1293.3	1306.2	1366.8	1392.8	1474.9	1483.6	1193.7
70°	1038.1	1033.7	1038.1	1064.0	1081.3	1111.6	1167.8	1198.1	1263.0	1284.6	968.9
72.5°	852.1	847.7	852.1	873.7	891.0	916.9	964.5	999.1	1055.4	1081.3	752.6
75°	687.7	679.0	687.7	705.0	700.7	735.3	774.2	808.8	860.7	878.0	558.0
77.5°	527.6	527.6	527.6	545.0	545.0	579.6	596.9	640.1	670.4	696.3	410.9
80°	393.6	389.3	393.6	397.9	397.9	415.3	445.5	475.8	501.7	501.7	281.2
82.5°	276.8	268.1	276.8	276.8	276.8	285.5	302.8	311.4	328.7	341.7	177.3
85°	173.0	173.0	173.0	177.3	173.0	181.6	186.0	194.6	194.6	186.0	108.1
87.5°	112.5	108.1	112.5	108.1	108.1	103.8	103.8	103.8	99.5	95.2	60.6
90°	60.6	60.6	60.6	60.6	60.6	80.8	107.7	121.2	104.1	70.1	44.6
92.5°	242.6	194.5	242.6	290.9	302.9	429.3	597.9	682.3	599.0	432.6	307.7
95°	845.8	699.8	845.8	991.8	1028.3	1350.3	1779.7	1994.4	1684.4	1064.4	599.4
97.5°	2026.6	1748.8	2026.6	2304.3	2373.8	2577.3	2848.7	2984.3	2467.5	1433.7	658.4
100°	2919.9	2589.0	2919.9	3250.7	3333.4	3318.5	3298.7	3288.8	2715.2	1568.2	707.8
102.5°	3798.6	3515.2	3798.6	4082.0	4152.9	3893.6	3547.8	3374.9	2793.2	1629.8	757.3
105°	4919.0	4766.7	4919.0	5071.3	5109.4	4528.0	3752.9	3365.3	2802.1	1675.5	830.6
107.5°	5652.8	5689.7	5652.8	5616.0	5606.8	4795.8	3714.6	3174.0	2677.3	1684.0	939.0
110°	5932.7	6091.5	5932.7	5774.0	5734.3	4827.8	3619.0	3014.6	2566.8	1671.3	999.6





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	5957.7	6201.5	5957.7	5713.9	5653.0	4725.2	3488.1	2869.5	2470.3	1671.8	1072.9
115°	5799.6	6137.6	5799.6	5461.7	5377.2	4483.4	3291.7	2695.8	2359.6	1687.2	1182.9
117.5°	5464.7	5839.5	5464.7	5089.9	4996.2	4189.5	3114.0	2576.2	2290.3	1718.5	1289.7
120°	5194.7	5559.0	5194.7	4830.6	4739.5	4002.4	3019.7	2528.4	2266.9	1744.0	1351.9
122.5°	4932.0	5291.2	4932.0	4572.7	4482.9	3819.2	2934.2	2491.8	2254.7	1780.8	1425.2
125°	4556.9	4887.8	4556.9	4226.0	4143.3	3579.5	2827.8	2451.9	2244.7	1830.2	1519.3
127.5°	4219.7	4498.8	4219.7	3940.5	3870.7	3386.6	2741.1	2418.4	2238.8	1879.5	1610.1
130°	4020.9	4278.8	4020.9	3763.0	3698.5	3267.6	2692.9	2405.6	2242.3	1915.6	1670.7
132.5°	3840.6	4071.5	3840.6	3609.7	3551.9	3166.1	2651.7	2394.5	2244.6	1944.9	1720.1
135°	3593.5	3792.6	3593.5	3394.4	3344.6	3021.5	2590.8	2375.4	2242.5	1976.8	1777.5
137.5°	3395.3	3558.2	3395.3	3232.3	3191.6	2918.4	2554.2	2372.1	2256.3	2024.6	1850.9
140°	3259.2	3411.6	3259.2	3106.9	3068.8	2832.9	2518.3	2361.0	2258.6	2053.8	1900.3
142.5°	3146.6	3277.6	3146.6	3015.6	2982.8	2775.5	2499.2	2361.0	2266.7	2078.3	1936.9
145°	2977.7	3076.8	2977.7	2878.4	2853.6	2684.1	2458.0	2345.0	2266.7	2110.1	1992.7
147.5°	2848.0	2930.1	2848.0	2765.8	2745.2	2611.8	2434.0	2345.0	2282.3	2156.9	2062.9
150°	2766.3	2832.9	2766.3	2699.6	2683.0	2570.4	2420.2	2345.0	2290.5	2181.4	2099.6
152.5°	2696.5	2746.8	2696.5	2646.2	2633.6	2537.4	2409.2	2345.0	2295.8	2197.3	2123.4
155°	2616.2	2649.5	2616.2	2583.0	2574.7	2498.1	2396.1	2345.0	2307.5	2232.4	2176.1
157.5°	2552.8	2576.2	2552.8	2529.5	2523.6	2464.1	2384.7	2345.0	2319.1	2267.4	2228.7
160°	2514.9	2528.4	2514.9	2501.5	2498.1	2447.0	2379.0	2345.0	2324.5	2283.4	2252.6
162.5°	2490.1	2502.9	2490.1	2477.4	2474.2	2431.2	2373.8	2345.0	2330.1	2300.4	2278.1
165°	2454.4	2467.8	2454.4	2440.9	2437.5	2406.6	2365.6	2345.0	2338.3	2324.9	2314.8
167.5°	2428.6	2434.3	2428.6	2423.0	2421.6	2401.4	2374.4	2361.0	2355.4	2344.0	2335.5
170°	2421.6	2421.6	2421.6	2421.6	2421.6	2401.4	2374.4	2361.0	2360.6	2360.0	2359.4
172.5°	2402.6	2397.7	2402.6	2407.6	2408.9	2392.9	2371.6	2361.0	2361.0	2361.0	2361.0
175°	2391.3	2391.3	2391.3	2391.3	2391.3	2381.2	2367.7	2361.0	2364.2	2370.6	2375.4
177.5°	2381.0	2375.4	2381.0	2386.6	2388.1	2380.1	2369.5	2364.2	2366.7	2371.6	2375.4
180°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8
2.5°	4636.7	4610.8	4610.8	4567.5	4550.2	4537.2	4515.6	4450.7	4433.4	4416.1	4442.1
5°	4675.6	4628.1	4593.4	4515.6	4450.7	4424.8	4342.6	4186.8	4083.0	4005.2	3962.0
7.5°	4684.3	4623.7	4558.8	4437.7	4282.0	4212.8	3962.0	3676.5	3598.6	3529.4	3486.1
10°	4675.6	4606.4	4515.6	4334.0	3966.2	3845.2	3594.3	3408.3	3360.7	3347.8	3360.7
12.5°	4645.4	4580.4	4455.0	4152.2	3637.5	3555.4	3408.3	3300.1	3291.5	3313.2	3429.9
15°	4593.4	4532.9	4385.8	3910.0	3455.9	3395.3	3291.5	3252.6	3300.1	3451.5	3801.9
17.5°	4541.5	4472.3	4290.7	3672.1	3317.5	3274.2	3200.7	3278.6	3546.7	3750.0	3866.8
20°	4472.3	4390.1	4182.6	3499.2	3218.0	3179.1	3144.5	3494.8	3698.1	3771.6	3836.5
22.5°	4390.1	4303.6	4035.5	3378.0	3114.2	3083.9	3105.5	3615.9	3698.1	3750.0	3806.2
25°	4282.0	4208.5	3862.5	3282.8	3032.0	2997.4	3079.6	3602.9	3650.5	3663.5	3776.0
27.5°	4182.6	4087.4	3680.8	3196.4	2932.5	2919.5	3101.2	3546.7	3581.3	3594.3	3715.4
30°	4061.4	3918.7	3477.5	3105.5	2828.7	2824.4	3105.5	3477.5	3468.8	3503.4	3624.6
32.5°	3936.0	3667.9	3248.2	2993.1	2729.2	2725.0	3075.3	3373.7	3365.1	3412.6	3503.4
35°	3819.2	3473.2	2936.8	2863.3	2603.8	2608.1	3001.8	3252.6	3256.9	3300.1	3356.4
37.5°	3698.1	3304.5	2595.2	2720.6	2482.7	2482.7	2902.3	3140.1	3131.5	3144.5	3222.3
40°	3555.4	3040.6	2292.4	2534.6	2370.3	2357.2	2781.2	3019.1	2988.7	2984.5	3092.6
42.5°	3404.0	2750.9	2067.5	2288.0	2240.5	2223.2	2634.0	2872.0	2815.8	2828.7	2967.1
45°	3239.6	2673.0	1894.4	1933.4	2106.4	2093.4	2474.0	2703.3	2664.4	2699.0	2841.7
47.5°	3075.3	2517.3	1838.3	1604.7	1963.7	1959.3	2296.7	2539.0	2517.3	2551.9	2703.3
50°	2850.4	2344.3	1833.9	1375.5	1803.6	1820.9	2084.8	2378.9	2378.9	2409.2	2569.2
52.5°	2560.5	2132.4	1665.2	1245.7	1617.6	1669.6	1898.8	2240.5	2249.1	2279.4	2422.2
55°	2296.7	1911.8	1544.1	1146.2	1397.0	1509.5	1717.1	2097.7	2115.1	2145.3	2275.1
57.5°	2054.5	1591.7	1518.2	1029.4	1193.7	1301.9	1557.1	1959.3	1968.0	1993.9	2119.4
60°	1795.0	1150.5	1392.8	904.0	1016.4	1098.7	1410.1	1795.0	1825.2	1842.5	1950.7
62.5°	1500.9	834.8	1263.0	817.5	930.0	947.3	1288.9	1639.2	1678.2	1691.1	1756.1
65°	1068.3	700.7	1072.7	744.0	839.1	843.4	1159.1	1479.2	1513.8	1535.5	1583.0
67.5°	722.3	570.9	817.5	674.7	769.9	774.2	1033.7	1293.3	1340.8	1358.2	1388.4
70°	501.7	380.6	605.5	601.2	692.1	700.7	899.6	1124.6	1167.8	1180.8	1198.1
72.5°	367.6	307.1	501.7	540.7	609.9	618.6	761.3	934.2	977.5	990.4	999.1
75°	281.2	324.4	406.6	471.4	519.0	523.4	622.8	761.3	791.5	800.2	804.5
77.5°	224.9	302.8	298.5	380.6	423.9	415.3	488.8	588.2	614.2	614.2	614.2
80°	168.7	237.9	224.9	272.5	311.4	302.8	350.3	419.5	428.2	436.8	432.6
82.5°	125.4	151.4	151.4	173.0	207.6	198.9	233.5	272.5	272.5	272.5	281.2
85°	77.9	86.5	69.2	90.8	116.8	112.5	129.8	147.1	151.4	151.4	142.7
87.5°	47.5	38.9	21.6	34.6	51.9	51.9	60.6	64.8	60.6	60.6	60.6
90°	41.5	28.7	15.9	28.7	41.5	44.6	70.1	104.1	121.2	107.7	80.8
92.5°	280.6	172.1	63.7	172.1	280.6	307.7	432.6	599.0	682.3	597.9	429.3
95°	549.8	351.4	153.0	351.4	549.8	599.4	1064.4	1684.4	1994.4	1779.7	1350.3
97.5°	614.6	439.6	264.6	439.6	614.6	658.4	1433.7	2467.5	2984.3	2848.7	2577.3
100°	668.1	509.4	350.7	509.4	668.1	707.8	1568.2	2715.2	3288.8	3298.7	3318.5
102.5°	720.2	572.1	424.0	572.1	720.2	757.3	1629.8	2793.2	3374.9	3547.8	3893.6
105°	799.3	673.8	548.4	673.8	799.3	830.6	1675.5	2802.1	3365.3	3752.9	4528.0
107.5°	909.8	792.9	676.0	792.9	909.8	939.0	1684.0	2677.3	3174.0	3714.6	4795.8
110°	973.2	867.6	762.0	867.6	973.2	999.6	1671.3	2566.8	3014.6	3619.0	4827.8



TEST NUMBER: P936169

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1047.8	947.2	846.5	947.2	1047.8	1072.9	1671.8	2470.3	2869.5	3488.1	4725.2
115°	1159.7	1066.9	974.1	1066.9	1159.7	1182.9	1687.2	2359.6	2695.8	3291.7	4483.4
117.5°	1268.6	1184.3	1100.0	1184.3	1268.6	1289.7	1718.5	2290.3	2576.2	3114.0	4189.5
120°	1332.0	1252.7	1173.3	1252.7	1332.0	1351.9	1744.0	2266.9	2528.4	3019.7	4002.4
122.5°	1405.2	1325.1	1245.0	1325.1	1405.2	1425.2	1780.8	2254.7	2491.8	2934.2	3819.2
125°	1501.1	1428.0	1355.1	1428.0	1501.1	1519.3	1830.2	2244.7	2451.9	2827.8	3579.5
127.5°	1591.7	1518.0	1444.3	1518.0	1591.7	1610.1	1879.5	2238.8	2418.4	2741.1	3386.6
130°	1650.8	1571.5	1492.2	1571.5	1650.8	1670.7	1915.6	2242.3	2405.6	2692.9	3267.6
132.5°	1700.3	1620.9	1541.6	1620.9	1700.3	1720.1	1944.9	2244.6	2394.5	2651.7	3166.1
135°	1759.5	1687.1	1614.9	1687.1	1759.5	1777.5	1976.8	2242.5	2375.4	2590.8	3021.5
137.5°	1833.0	1761.4	1689.9	1761.4	1833.0	1850.9	2024.6	2256.3	2372.1	2554.2	2918.4
140°	1883.9	1817.9	1752.1	1817.9	1883.9	1900.3	2053.8	2258.6	2361.0	2518.3	2832.9
142.5°	1921.7	1860.8	1799.8	1860.8	1921.7	1936.9	2078.3	2266.7	2361.0	2499.2	2775.5
145°	1979.5	1926.4	1873.2	1926.4	1979.5	1992.7	2110.1	2266.7	2345.0	2458.0	2684.1
147.5°	2049.9	1998.2	1946.5	1998.2	2049.9	2062.9	2156.9	2282.3	2345.0	2434.0	2611.8
150°	2087.9	2041.1	1994.4	2041.1	2087.9	2099.6	2181.4	2290.5	2345.0	2420.2	2570.4
152.5°	2114.6	2079.2	2043.8	2079.2	2114.6	2123.4	2197.3	2295.8	2345.0	2409.2	2537.4
155°	2169.5	2143.4	2117.1	2143.4	2169.5	2176.1	2232.4	2307.5	2345.0	2396.1	2498.1
157.5°	2222.3	2196.8	2171.3	2196.8	2222.3	2228.7	2267.4	2319.1	2345.0	2384.7	2464.1
160°	2247.7	2227.8	2208.0	2227.8	2247.7	2252.6	2283.4	2324.5	2345.0	2379.0	2447.0
162.5°	2274.3	2259.5	2244.6	2259.5	2274.3	2278.1	2300.4	2330.1	2345.0	2373.8	2431.2
165°	2311.4	2297.9	2284.5	2297.9	2311.4	2314.8	2324.9	2338.3	2345.0	2365.6	2406.6
167.5°	2333.9	2327.6	2321.2	2327.6	2333.9	2335.5	2344.0	2355.4	2361.0	2374.4	2401.4
170°	2357.8	2351.4	2345.0	2351.4	2357.8	2359.4	2360.0	2360.6	2361.0	2374.4	2401.4
172.5°	2360.6	2359.2	2357.8	2359.2	2360.6	2361.0	2361.0	2361.0	2361.0	2371.6	2392.9
175°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2370.6	2364.2	2361.0	2367.7	2381.2
177.5°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2371.6	2366.7	2364.2	2369.5	2380.1
180°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4



TEST NUMBER: P936169  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8	4571.8
2.5°	4411.7	4398.8	4416.1	4368.5	4416.1	4398.8	4411.7	4442.1	4416.1	4433.4	4450.7
5°	3871.1	3849.5	3780.2	3724.1	3780.2	3849.5	3871.1	3962.0	4005.2	4083.0	4186.8
7.5°	3460.2	3442.9	3425.6	3391.0	3425.6	3442.9	3460.2	3486.1	3529.4	3598.6	3676.5
10°	3369.4	3373.7	3399.7	3395.3	3399.7	3373.7	3369.4	3360.7	3347.8	3360.7	3408.3
12.5°	3602.9	3641.9	3784.6	3776.0	3784.6	3641.9	3602.9	3429.9	3313.2	3291.5	3300.1
15°	3871.1	3884.1	3914.3	3918.7	3914.3	3884.1	3871.1	3801.9	3451.5	3300.1	3252.6
17.5°	3897.0	3901.4	3923.0	3923.0	3923.0	3901.4	3897.0	3866.8	3750.0	3546.7	3278.6
20°	3875.4	3884.1	3927.4	3936.0	3927.4	3884.1	3875.4	3836.5	3771.6	3698.1	3494.8
22.5°	3866.8	3884.1	3918.7	3914.3	3918.7	3884.1	3866.8	3806.2	3750.0	3698.1	3615.9
25°	3823.5	3823.5	3827.9	3832.2	3827.9	3823.5	3823.5	3776.0	3663.5	3650.5	3602.9
27.5°	3732.7	3741.4	3767.3	3762.9	3767.3	3741.4	3732.7	3715.4	3594.3	3581.3	3546.7
30°	3650.5	3641.9	3620.2	3602.9	3620.2	3641.9	3650.5	3624.6	3503.4	3468.8	3477.5
32.5°	3512.1	3490.5	3468.8	3455.9	3468.8	3490.5	3512.1	3503.4	3412.6	3365.1	3373.7
35°	3347.8	3352.1	3347.8	3334.8	3347.8	3352.1	3347.8	3356.4	3300.1	3256.9	3252.6
37.5°	3231.0	3239.6	3235.3	3218.0	3235.3	3239.6	3231.0	3222.3	3144.5	3131.5	3140.1
40°	3109.9	3114.2	3109.9	3096.8	3109.9	3114.2	3109.9	3092.6	2984.5	2988.7	3019.1
42.5°	2993.1	2988.7	2975.8	2967.1	2975.8	2988.7	2993.1	2967.1	2828.7	2815.8	2872.0
45°	2859.0	2863.3	2837.3	2824.4	2837.3	2863.3	2859.0	2841.7	2699.0	2664.4	2703.3
47.5°	2725.0	2725.0	2703.3	2690.3	2703.3	2725.0	2725.0	2703.3	2551.9	2517.3	2539.0
50°	2582.2	2577.9	2547.6	2543.2	2547.6	2577.9	2582.2	2569.2	2409.2	2378.9	2378.9
52.5°	2417.8	2417.8	2422.2	2430.8	2422.2	2417.8	2417.8	2422.2	2279.4	2249.1	2240.5
55°	2275.1	2279.4	2309.7	2318.4	2309.7	2279.4	2275.1	2275.1	2145.3	2115.1	2097.7
57.5°	2128.0	2128.0	2149.7	2149.7	2149.7	2128.0	2128.0	2119.4	1993.9	1968.0	1959.3
60°	1959.3	1968.0	1985.3	1981.0	1985.3	1968.0	1959.3	1950.7	1842.5	1825.2	1795.0
62.5°	1782.0	1790.6	1795.0	1786.3	1795.0	1790.6	1782.0	1756.1	1691.1	1678.2	1639.2
65°	1596.1	1604.7	1609.0	1600.3	1609.0	1604.7	1596.1	1583.0	1535.5	1513.8	1479.2
67.5°	1405.7	1401.4	1397.0	1414.3	1397.0	1401.4	1405.7	1388.4	1358.2	1340.8	1293.3
70°	1211.0	1211.0	1206.8	1215.4	1206.8	1211.0	1211.0	1198.1	1180.8	1167.8	1124.6
72.5°	1003.5	999.1	1016.4	1003.5	1016.4	999.1	1003.5	999.1	990.4	977.5	934.2
75°	800.2	808.8	800.2	813.1	800.2	808.8	800.2	804.5	800.2	791.5	761.3
77.5°	609.9	618.6	609.9	609.9	609.9	618.6	609.9	614.2	614.2	614.2	588.2
80°	432.6	428.2	428.2	423.9	428.2	428.2	432.6	432.6	436.8	428.2	419.5
82.5°	276.8	272.5	272.5	281.2	272.5	272.5	276.8	281.2	272.5	272.5	272.5
85°	151.4	155.7	147.1	147.1	147.1	155.7	151.4	142.7	151.4	151.4	147.1
87.5°	56.2	51.9	51.9	51.9	51.9	51.9	56.2	60.6	60.6	60.6	64.8
90°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	80.8	107.7	121.2	104.1
92.5°	302.9	290.9	242.6	194.5	242.6	290.9	302.9	429.3	597.9	682.3	599.0
95°	1028.3	991.8	845.8	699.8	845.8	991.8	1028.3	1350.3	1779.7	1994.4	1684.4
97.5°	2373.8	2304.3	2026.6	1748.8	2026.6	2304.3	2373.8	2577.3	2848.7	2984.3	2467.5
100°	3333.4	3250.7	2919.9	2589.0	2919.9	3250.7	3333.4	3318.5	3298.7	3288.8	2715.2
102.5°	4152.9	4082.0	3798.6	3515.2	3798.6	4082.0	4152.9	3893.6	3547.8	3374.9	2793.2
105°	5109.4	5071.3	4919.0	4766.7	4919.0	5071.3	5109.4	4528.0	3752.9	3365.3	2802.1
107.5°	5606.8	5616.0	5652.8	5689.7	5652.8	5616.0	5606.8	4795.8	3714.6	3174.0	2677.3
110°	5734.3	5774.0	5932.7	6091.5	5932.7	5774.0	5734.3	4827.8	3619.0	3014.6	2566.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5653.0	5713.9	5957.7	6201.5	5957.7	5713.9	5653.0	4725.2	3488.1	2869.5	2470.3
115°	5377.2	5461.7	5799.6	6137.6	5799.6	5461.7	5377.2	4483.4	3291.7	2695.8	2359.6
117.5°	4996.2	5089.9	5464.7	5839.5	5464.7	5089.9	4996.2	4189.5	3114.0	2576.2	2290.3
120°	4739.5	4830.6	5194.7	5559.0	5194.7	4830.6	4739.5	4002.4	3019.7	2528.4	2266.9
122.5°	4482.9	4572.7	4932.0	5291.2	4932.0	4572.7	4482.9	3819.2	2934.2	2491.8	2254.7
125°	4143.3	4226.0	4556.9	4887.8	4556.9	4226.0	4143.3	3579.5	2827.8	2451.9	2244.7
127.5°	3870.7	3940.5	4219.7	4498.8	4219.7	3940.5	3870.7	3386.6	2741.1	2418.4	2238.8
130°	3698.5	3763.0	4020.9	4278.8	4020.9	3763.0	3698.5	3267.6	2692.9	2405.6	2242.3
132.5°	3551.9	3609.7	3840.6	4071.5	3840.6	3609.7	3551.9	3166.1	2651.7	2394.5	2244.6
135°	3344.6	3394.4	3593.5	3792.6	3593.5	3394.4	3344.6	3021.5	2590.8	2375.4	2242.5
137.5°	3191.6	3232.3	3395.3	3558.2	3395.3	3232.3	3191.6	2918.4	2554.2	2372.1	2256.3
140°	3068.8	3106.9	3259.2	3411.6	3259.2	3106.9	3068.8	2832.9	2518.3	2361.0	2258.6
142.5°	2982.8	3015.6	3146.6	3277.6	3146.6	3015.6	2982.8	2775.5	2499.2	2361.0	2266.7
145°	2853.6	2878.4	2977.7	3076.8	2977.7	2878.4	2853.6	2684.1	2458.0	2345.0	2266.7
147.5°	2745.2	2765.8	2848.0	2930.1	2848.0	2765.8	2745.2	2611.8	2434.0	2345.0	2282.3
150°	2683.0	2699.6	2766.3	2832.9	2766.3	2699.6	2683.0	2570.4	2420.2	2345.0	2290.5
152.5°	2633.6	2646.2	2696.5	2746.8	2696.5	2646.2	2633.6	2537.4	2409.2	2345.0	2295.8
155°	2574.7	2583.0	2616.2	2649.5	2616.2	2583.0	2574.7	2498.1	2396.1	2345.0	2307.5
157.5°	2523.6	2529.5	2552.8	2576.2	2552.8	2529.5	2523.6	2464.1	2384.7	2345.0	2319.1
160°	2498.1	2501.5	2514.9	2528.4	2514.9	2501.5	2498.1	2447.0	2379.0	2345.0	2324.5
162.5°	2474.2	2477.4	2490.1	2502.9	2490.1	2477.4	2474.2	2431.2	2373.8	2345.0	2330.1
165°	2437.5	2440.9	2454.4	2467.8	2454.4	2440.9	2437.5	2406.6	2365.6	2345.0	2338.3
167.5°	2421.6	2423.0	2428.6	2434.3	2428.6	2423.0	2421.6	2401.4	2374.4	2361.0	2355.4
170°	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2401.4	2374.4	2361.0	2360.6
172.5°	2408.9	2407.6	2402.6	2397.7	2402.6	2407.6	2408.9	2392.9	2371.6	2361.0	2361.0
175°	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2381.2	2367.7	2361.0	2364.2
177.5°	2388.1	2386.6	2381.0	2375.4	2381.0	2386.6	2388.1	2380.1	2369.5	2364.2	2366.7
180°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	4571.8	4571.8	4571.8	4571.8	4571.8
2.5°	4515.6	4537.2	4550.2	4567.5	4610.8
5°	4342.6	4424.8	4450.7	4515.6	4593.4
7.5°	3962.0	4212.8	4282.0	4437.7	4558.8
10°	3594.3	3845.2	3966.2	4334.0	4515.6
12.5°	3408.3	3555.4	3637.5	4152.2	4455.0
15°	3291.5	3395.3	3455.9	3910.0	4385.8
17.5°	3200.7	3274.2	3317.5	3672.1	4290.7
20°	3144.5	3179.1	3218.0	3499.2	4182.6
22.5°	3105.5	3083.9	3114.2	3378.0	4035.5
25°	3079.6	2997.4	3032.0	3282.8	3862.5
27.5°	3101.2	2919.5	2932.5	3196.4	3680.8
30°	3105.5	2824.4	2828.7	3105.5	3477.5
32.5°	3075.3	2725.0	2729.2	2993.1	3248.2
35°	3001.8	2608.1	2603.8	2863.3	2936.8
37.5°	2902.3	2482.7	2482.7	2720.6	2595.2
40°	2781.2	2357.2	2370.3	2534.6	2292.4
42.5°	2634.0	2223.2	2240.5	2288.0	2067.5
45°	2474.0	2093.4	2106.4	1933.4	1894.4
47.5°	2296.7	1959.3	1963.7	1604.7	1838.3
50°	2084.8	1820.9	1803.6	1375.5	1833.9
52.5°	1898.8	1669.6	1617.6	1245.7	1665.2
55°	1717.1	1509.5	1397.0	1146.2	1544.1
57.5°	1557.1	1301.9	1193.7	1029.4	1518.2
60°	1410.1	1098.7	1016.4	904.0	1392.8
62.5°	1288.9	947.3	930.0	817.5	1263.0
65°	1159.1	843.4	839.1	744.0	1072.7
67.5°	1033.7	774.2	769.9	674.7	817.5
70°	899.6	700.7	692.1	601.2	605.5
72.5°	761.3	618.6	609.9	540.7	501.7
75°	622.8	523.4	519.0	471.4	406.6
77.5°	488.8	415.3	423.9	380.6	298.5
80°	350.3	302.8	311.4	272.5	224.9
82.5°	233.5	198.9	207.6	173.0	151.4
85°	129.8	112.5	116.8	90.8	69.2
87.5°	60.6	51.9	51.9	34.6	21.6
90°	70.1	44.6	41.5	28.7	15.9
92.5°	432.6	307.7	280.6	172.1	63.7
95°	1064.4	599.4	549.8	351.4	153.0
97.5°	1433.7	658.4	614.6	439.6	264.6
100°	1568.2	707.8	668.1	509.4	350.7
102.5°	1629.8	757.3	720.2	572.1	424.0
105°	1675.5	830.6	799.3	673.8	548.4
107.5°	1684.0	939.0	909.8	792.9	676.0
110°	1671.3	999.6	973.2	867.6	762.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1671.8	1072.9	1047.8	947.2	846.5
115°	1687.2	1182.9	1159.7	1066.9	974.1
117.5°	1718.5	1289.7	1268.6	1184.3	1100.0
120°	1744.0	1351.9	1332.0	1252.7	1173.3
122.5°	1780.8	1425.2	1405.2	1325.1	1245.0
125°	1830.2	1519.3	1501.1	1428.0	1355.1
127.5°	1879.5	1610.1	1591.7	1518.0	1444.3
130°	1915.6	1670.7	1650.8	1571.5	1492.2
132.5°	1944.9	1720.1	1700.3	1620.9	1541.6
135°	1976.8	1777.5	1759.5	1687.1	1614.9
137.5°	2024.6	1850.9	1833.0	1761.4	1689.9
140°	2053.8	1900.3	1883.9	1817.9	1752.1
142.5°	2078.3	1936.9	1921.7	1860.8	1799.8
145°	2110.1	1992.7	1979.5	1926.4	1873.2
147.5°	2156.9	2062.9	2049.9	1998.2	1946.5
150°	2181.4	2099.6	2087.9	2041.1	1994.4
152.5°	2197.3	2123.4	2114.6	2079.2	2043.8
155°	2232.4	2176.1	2169.5	2143.4	2117.1
157.5°	2267.4	2228.7	2222.3	2196.8	2171.3
160°	2283.4	2252.6	2247.7	2227.8	2208.0
162.5°	2300.4	2278.1	2274.3	2259.5	2244.6
165°	2324.9	2314.8	2311.4	2297.9	2284.5
167.5°	2344.0	2335.5	2333.9	2327.6	2321.2
170°	2360.0	2359.4	2357.8	2351.4	2345.0
172.5°	2361.0	2361.0	2360.6	2359.2	2357.8
175°	2370.6	2375.4	2375.4	2375.4	2375.4
177.5°	2371.6	2375.4	2375.4	2375.4	2375.4
180°	2375.4	2375.4	2375.4	2375.4	2375.4



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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	13.39	14.19	14.40	15.21	16.57	16.24	17.04	17.25	18.06	19.42
	3H	13.86	14.58	14.88	15.61	16.99	17.58	18.31	18.61	19.34	20.72
	4H	14.05	14.73	15.08	15.76	17.15	18.03	18.71	19.06	19.75	21.14
	6H	14.16	14.79	15.21	15.83	17.23	18.32	18.95	19.36	19.98	21.38
	8H	14.16	14.76	15.21	15.81	17.21	18.39	18.99	19.44	20.05	21.44
	12H	14.13	14.70	15.18	15.75	17.17	18.43	19.00	19.49	20.05	21.47
4H	2H	14.42	15.10	15.46	16.13	17.52	16.64	17.32	17.68	18.35	19.74
	3H	15.44	16.01	16.49	17.07	18.47	18.14	18.71	19.19	19.78	21.18
	4H	15.71	16.23	16.77	17.29	18.71	18.68	19.20	19.73	20.25	21.67
	6H	15.83	16.28	16.90	17.36	18.78	19.04	19.49	20.11	20.57	21.99
	8H	15.84	16.26	16.90	17.32	18.76	19.15	19.57	20.22	20.64	22.07
	12H	15.80	16.18	16.89	17.26	18.70	19.21	19.59	20.29	20.67	22.11
8H	4H	16.16	16.58	17.23	17.65	19.08	18.79	19.21	19.86	20.28	21.72
	6H	16.42	16.77	17.51	17.88	19.31	19.23	19.58	20.32	20.69	22.12
	8H	16.47	16.77	17.56	17.86	19.31	19.39	19.69	20.48	20.79	22.24
	12H	16.45	16.71	17.55	17.80	19.29	19.49	19.76	20.59	20.84	22.33
12H	4H	16.17	16.55	17.25	17.63	19.07	18.76	19.13	19.84	20.22	21.66
	6H	16.48	16.79	17.58	17.88	19.33	19.23	19.53	20.33	20.63	22.08
	8H	16.55	16.82	17.65	17.90	19.39	19.39	19.66	20.49	20.75	22.24