

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: P934413

Luminaire Tested: SQ4-FA-050U-100D-835-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934413
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

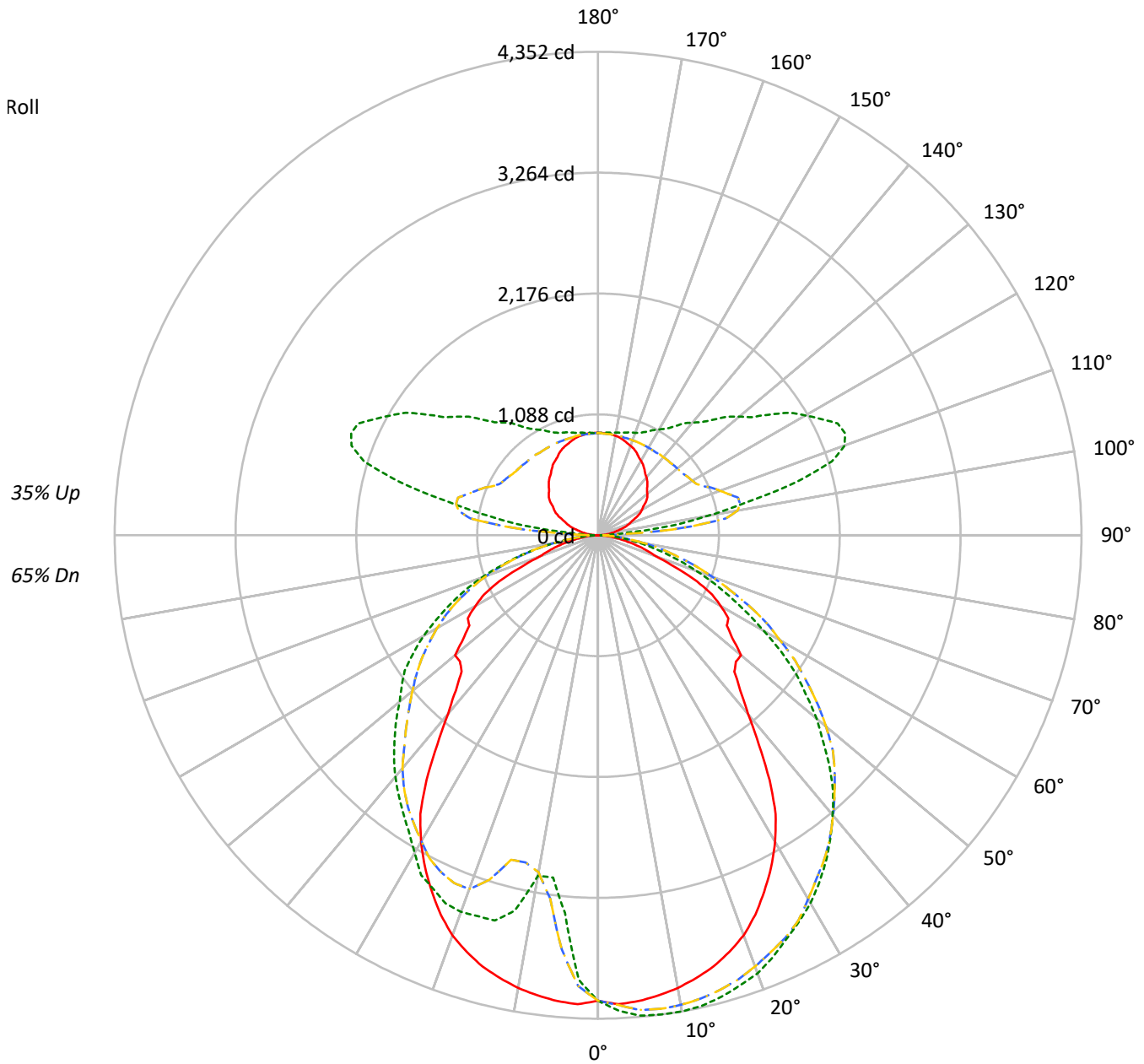
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16839.0 lumens
Efficiency: N/A
Efficacy: 124.2 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: 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

TEST NUMBER: P934413
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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	12959	12959	12959	12959
5°	13061	13082	13061	10286
10°	12978	12886	12978	9212
15°	12842	12607	12842	10527
20°	12578	12276	12578	10549
25°	12033	11794	12033	10325
30°	11327	11393	11327	9835
35°	10104	10886	10104	9295
40°	8424	10290	8424	8888
45°	7531	9592	7531	8419
50°	8007	8760	8007	7949
55°	7541	7863	7541	7676
60°	7783	6678	7783	7031
65°	7068	5520	7068	6171
70°	4906	4399	4906	5172
75°	4319	3252	4319	3894
80°	3505	2150	3505	2341
85°	2054	1138	2054	968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	2.2
10°-20°	1073.8	6.4
20°-30°	1659.9	9.9
30°-40°	1981.5	11.8
40°-50°	1993.2	11.8
50°-60°	1734.3	10.3
60°-70°	1229.6	7.3
70°-80°	650.5	3.9
80°-90°	165.5	1.0
90°-100°	449.1	2.7
100°-110°	1180.7	7.0
110°-120°	1224.2	7.3
120°-130°	982.0	5.8
130°-140°	770.5	4.6
140°-150°	591.4	3.5
150°-160°	425.9	2.5
160°-170°	260.6	1.5
170°-180°	88.0	0.5
0°-30°	3111.8	18.5
0°-40°	5093.4	30.2
0°-60°	8820.8	52.4
0°-90°	10866.5	64.5
90°-120°	2854.0	16.9
90°-150°	5197.9	30.9
90°-180°	5972.0	35.5
0°-180°	16839.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4190	4190	4190	4190	4190	
5°	4210	4340	4210	3413	4210	399
15°	4019	4301	4019	3591	4019	1131
25°	3540	4011	3540	3512	3540	1625
35°	2691	3579	2691	3056	2691	1665
45°	1736	2949	1736	2588	1736	1391
55°	1415	2176	1415	2124	1415	1300
65°	983	1312	983	1467	983	939
75°	373	622	373	745	373	392
85°	63	158	63	135	63	86
90°	6	24	6	24	6	8
95°	59	271	59	271	59	66
105°	213	1849	213	1849	213	226
115°	378	2381	378	2381	378	373
125°	526	1896	526	1896	526	467
135°	626	1471	626	1471	626	485
145°	726	1193	726	1193	726	455
155°	821	1028	821	1028	821	377
165°	886	957	886	957	886	250
175°	921	928	921	928	921	87
180°	921	921	921	921	921	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4225.3	4225.3	4249.1	4257.0	4257.0	4245.1	4233.2	4245.1	4280.8	4292.7	4288.7
5°	4209.5	4241.2	4284.8	4292.7	4300.6	4296.7	4288.7	4296.7	4336.3	4344.2	4348.2
7.5°	4177.7	4237.2	4292.7	4304.6	4316.5	4304.6	4300.6	4308.6	4348.2	4356.1	4356.1
10°	4138.1	4221.4	4284.8	4292.7	4304.6	4292.7	4292.7	4308.6	4348.2	4356.1	4360.1
12.5°	4082.6	4197.6	4257.0	4265.0	4280.8	4276.8	4272.9	4288.7	4328.4	4336.3	4336.3
15°	4019.2	4154.0	4209.5	4217.4	4245.1	4237.2	4237.2	4253.1	4296.7	4308.6	4304.6
17.5°	3932.0	4098.5	4161.9	4173.8	4193.6	4189.6	4193.6	4209.5	4249.1	4257.0	4261.0
20°	3832.9	4023.2	4098.5	4110.4	4130.2	4130.2	4130.2	4150.0	4189.6	4205.5	4205.5
22.5°	3698.1	3943.9	4023.2	4031.1	4054.9	4054.9	4062.8	4090.5	4126.2	4130.2	4130.2
25°	3539.6	3856.7	3924.1	3947.9	3971.6	3983.5	3995.4	4011.3	4023.2	4019.2	4023.2
27.5°	3373.1	3745.7	3832.9	3848.8	3880.5	3892.4	3908.2	3912.2	3916.1	3928.0	3920.1
30°	3186.8	3591.1	3721.9	3737.8	3789.3	3797.2	3781.4	3789.3	3809.1	3817.1	3825.0
32.5°	2976.7	3361.2	3607.0	3642.6	3690.2	3666.4	3662.5	3674.4	3706.1	3706.1	3714.0
35°	2691.4	3182.9	3500.0	3531.7	3567.3	3539.6	3555.4	3559.4	3579.2	3591.1	3587.2
37.5°	2378.2	3028.3	3389.0	3412.8	3440.5	3404.8	3428.6	3440.5	3456.4	3448.4	3448.4
40°	2100.8	2786.5	3258.2	3274.0	3297.8	3270.1	3293.8	3301.8	3309.7	3301.8	3297.8
42.5°	1894.7	2520.9	3119.4	3139.3	3123.4	3143.2	3151.1	3167.0	3155.1	3139.3	3139.3
45°	1736.1	2449.6	2968.8	2992.6	2968.8	3000.5	3012.4	3012.4	2976.7	2968.8	2964.9
47.5°	1684.6	2306.9	2818.2	2818.2	2806.3	2845.9	2865.8	2838.0	2802.3	2790.5	2790.5
50°	1680.6	2148.3	2612.1	2596.2	2651.7	2699.3	2679.5	2651.7	2624.0	2580.4	2580.4
52.5°	1526.0	1954.1	2346.5	2406.0	2493.2	2520.9	2489.2	2461.5	2413.9	2394.1	2378.2
55°	1415.0	1752.0	2104.7	2223.6	2314.8	2350.5	2291.0	2263.3	2191.9	2180.0	2172.1
57.5°	1391.3	1458.6	1882.8	2033.4	2144.4	2140.4	2104.7	2053.2	1993.7	1981.9	1977.9
60°	1276.3	1054.3	1644.9	1823.3	1938.3	1926.4	1894.7	1847.1	1791.6	1783.7	1775.7
62.5°	1157.4	765.0	1375.4	1577.6	1740.1	1736.1	1708.4	1637.0	1597.4	1577.6	1561.7
65°	983.0	642.1	979.0	1312.0	1545.8	1553.8	1494.3	1442.8	1399.2	1375.4	1371.4
67.5°	749.1	523.2	661.9	1094.0	1359.6	1351.6	1276.3	1252.5	1197.0	1185.1	1161.4
70°	554.9	348.8	459.8	887.9	1177.2	1157.4	1097.9	1070.2	1018.7	990.9	975.1
72.5°	459.8	281.4	336.9	689.7	990.9	967.1	915.6	883.9	840.3	816.5	800.7
75°	372.6	297.3	257.6	511.3	804.6	788.8	741.2	709.5	673.8	642.1	646.1
77.5°	273.5	277.5	206.1	376.6	638.2	614.4	586.6	547.0	531.1	499.4	499.4
80°	206.1	218.0	154.6	257.6	459.8	459.8	436.0	408.3	380.5	364.7	364.7
82.5°	138.7	138.7	114.9	162.5	313.1	301.2	285.4	277.5	261.6	253.7	253.7
85°	63.4	79.3	71.3	99.1	170.4	178.4	178.4	170.4	166.5	158.5	162.5
87.5°	19.8	35.7	43.6	55.5	87.2	91.2	95.1	95.1	95.1	99.1	99.1
90°	6.2	11.1	16.1	17.3	27.2	40.4	47.0	41.8	31.3	23.5	23.5
92.5°	24.7	66.7	108.8	119.3	167.7	232.3	264.6	231.9	166.5	117.5	112.8
95°	59.4	136.3	213.3	232.5	412.8	653.3	773.5	690.2	523.7	398.8	384.6
97.5°	102.6	170.5	238.4	255.4	556.1	957.0	1157.5	1104.9	999.6	920.7	893.8
100°	136.0	197.6	259.1	274.5	608.2	1053.1	1275.6	1279.4	1287.1	1292.9	1260.8
102.5°	164.5	221.9	279.3	293.7	632.1	1083.4	1309.0	1376.0	1510.1	1610.7	1583.2
105°	212.7	261.3	309.9	322.1	649.8	1086.8	1305.3	1455.6	1756.2	1981.7	1966.9
107.5°	262.2	307.5	352.9	364.2	653.2	1038.5	1231.1	1440.8	1860.2	2174.7	2178.3
110°	295.6	336.5	377.5	387.7	648.2	995.6	1169.3	1403.7	1872.5	2224.1	2239.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	328.3	367.3	406.3	416.1	648.4	958.1	1113.0	1352.9	1832.7	2192.6	2216.2
115°	377.8	413.8	449.8	458.8	654.4	915.2	1045.6	1276.7	1738.9	2085.6	2118.4
117.5°	426.6	459.3	492.0	500.2	666.5	888.3	999.2	1207.8	1624.9	1937.8	1974.1
120°	455.1	485.9	516.6	524.3	676.4	879.3	980.7	1171.3	1552.4	1838.3	1873.6
122.5°	482.9	514.0	545.0	552.8	690.7	874.5	966.4	1138.0	1481.3	1738.7	1773.5
125°	525.6	553.9	582.2	589.3	709.9	870.6	951.0	1096.8	1388.3	1607.0	1639.1
127.5°	560.2	588.8	617.4	624.5	729.0	868.3	938.0	1063.2	1313.5	1501.3	1528.4
130°	578.8	609.6	640.3	648.0	743.0	869.7	933.1	1044.5	1267.4	1434.5	1459.5
132.5°	597.9	628.7	659.5	667.2	754.4	870.6	928.7	1028.5	1228.0	1377.6	1400.0
135°	626.4	654.4	682.4	689.4	766.7	869.8	921.3	1004.9	1172.0	1297.3	1316.6
137.5°	655.4	683.2	711.0	717.9	785.3	875.2	920.1	990.7	1132.0	1237.9	1253.7
140°	679.5	705.1	730.6	737.0	796.6	876.0	915.7	976.7	1098.8	1190.3	1205.1
142.5°	698.1	721.7	745.4	751.3	806.1	879.2	915.7	969.3	1076.5	1156.9	1169.6
145°	726.5	747.1	767.7	772.9	818.5	879.2	909.6	953.4	1041.1	1106.8	1116.4
147.5°	755.0	775.0	795.1	800.1	836.6	885.3	909.6	944.1	1013.1	1064.8	1072.8
150°	773.5	791.6	809.8	814.3	846.1	888.4	909.6	938.7	996.9	1040.6	1047.1
152.5°	792.7	806.4	820.2	823.6	852.3	890.5	909.6	934.5	984.2	1021.5	1026.4
155°	821.1	831.3	841.5	844.0	865.9	895.0	909.6	929.4	968.9	998.6	1001.8
157.5°	842.2	852.1	861.9	864.4	879.5	899.6	909.6	925.0	955.7	978.8	981.1
160°	856.4	864.1	871.8	873.7	885.7	901.6	909.6	922.8	949.1	968.9	970.2
162.5°	870.6	876.4	882.2	883.6	892.3	903.8	909.6	920.7	942.9	959.6	960.8
165°	886.1	891.3	896.5	897.8	901.7	907.0	909.6	917.6	933.5	945.4	946.7
167.5°	900.3	902.7	905.2	905.8	909.1	913.5	915.7	920.9	931.4	939.2	939.8
170°	909.6	912.0	914.5	915.1	915.3	915.6	915.7	920.9	931.4	939.2	939.2
172.5°	914.5	915.0	915.6	915.7	915.7	915.7	915.7	919.8	928.1	934.3	933.8
175°	921.3	921.3	921.3	921.3	919.4	916.9	915.7	918.3	923.6	927.5	927.5
177.5°	921.3	921.3	921.3	921.3	919.9	918.0	917.0	919.1	923.2	926.3	925.7
180°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4296.7	4284.8	4296.7	4288.7	4292.7	4280.8	4245.1	4233.2	4245.1	4257.0	4257.0
5°	4348.2	4340.3	4348.2	4348.2	4344.2	4336.3	4296.7	4288.7	4296.7	4300.6	4292.7
7.5°	4364.0	4352.2	4364.0	4356.1	4356.1	4348.2	4308.6	4300.6	4304.6	4316.5	4304.6
10°	4364.0	4352.2	4364.0	4360.1	4356.1	4348.2	4308.6	4292.7	4292.7	4304.6	4292.7
12.5°	4344.2	4336.3	4344.2	4336.3	4336.3	4328.4	4288.7	4272.9	4276.8	4280.8	4265.0
15°	4312.5	4300.6	4312.5	4304.6	4308.6	4296.7	4253.1	4237.2	4237.2	4245.1	4217.4
17.5°	4265.0	4249.1	4265.0	4261.0	4257.0	4249.1	4209.5	4193.6	4189.6	4193.6	4173.8
20°	4209.5	4197.6	4209.5	4205.5	4205.5	4189.6	4150.0	4130.2	4130.2	4130.2	4110.4
22.5°	4122.3	4110.4	4122.3	4130.2	4130.2	4126.2	4090.5	4062.8	4054.9	4054.9	4031.1
25°	4023.2	4011.3	4023.2	4023.2	4019.2	4023.2	4011.3	3995.4	3983.5	3971.6	3947.9
27.5°	3928.0	3920.1	3928.0	3920.1	3928.0	3916.1	3912.2	3908.2	3892.4	3880.5	3848.8
30°	3832.9	3825.0	3832.9	3825.0	3817.1	3809.1	3789.3	3781.4	3797.2	3789.3	3737.8
32.5°	3714.0	3706.1	3714.0	3714.0	3706.1	3706.1	3674.4	3662.5	3666.4	3690.2	3642.6
35°	3591.1	3579.2	3591.1	3587.2	3591.1	3579.2	3559.4	3555.4	3539.6	3567.3	3531.7
37.5°	3448.4	3436.5	3448.4	3448.4	3448.4	3456.4	3440.5	3428.6	3404.8	3440.5	3412.8
40°	3301.8	3285.9	3301.8	3297.8	3301.8	3309.7	3301.8	3293.8	3270.1	3297.8	3274.0
42.5°	3135.3	3131.3	3135.3	3139.3	3139.3	3155.1	3167.0	3151.1	3143.2	3123.4	3139.3
45°	2956.9	2949.0	2956.9	2964.9	2968.8	2976.7	3012.4	3012.4	3000.5	2968.8	2992.6
47.5°	2766.7	2746.9	2766.7	2790.5	2790.5	2802.3	2838.0	2865.8	2845.9	2806.3	2818.2
50°	2564.5	2568.5	2564.5	2580.4	2580.4	2624.0	2651.7	2679.5	2699.3	2651.7	2596.2
52.5°	2366.3	2362.4	2366.3	2378.2	2394.1	2413.9	2461.5	2489.2	2520.9	2493.2	2406.0
55°	2168.1	2176.1	2168.1	2172.1	2180.0	2191.9	2263.3	2291.0	2350.5	2314.8	2223.6
57.5°	1970.0	1958.1	1970.0	1977.9	1981.9	1993.7	2053.2	2104.7	2140.4	2144.4	2033.4
60°	1740.1	1724.2	1740.1	1775.7	1783.7	1791.6	1847.1	1894.7	1926.4	1938.3	1823.3
62.5°	1537.9	1510.2	1537.9	1561.7	1577.6	1597.4	1637.0	1708.4	1736.1	1740.1	1577.6
65°	1323.9	1312.0	1323.9	1371.4	1375.4	1399.2	1442.8	1494.3	1553.8	1545.8	1312.0
67.5°	1129.7	1129.7	1129.7	1161.4	1185.1	1197.0	1252.5	1276.3	1351.6	1359.6	1094.0
70°	951.3	947.3	951.3	975.1	990.9	1018.7	1070.2	1097.9	1157.4	1177.2	887.9
72.5°	780.9	776.9	780.9	800.7	816.5	840.3	883.9	915.6	967.1	990.9	689.7
75°	630.2	622.3	630.2	646.1	642.1	673.8	709.5	741.2	788.8	804.6	511.3
77.5°	483.6	483.6	483.6	499.4	499.4	531.1	547.0	586.6	614.4	638.2	376.6
80°	360.7	356.7	360.7	364.7	364.7	380.5	408.3	436.0	459.8	459.8	257.6
82.5°	253.7	245.7	253.7	253.7	253.7	261.6	277.5	285.4	301.2	313.1	162.5
85°	158.5	158.5	158.5	162.5	158.5	166.5	170.4	178.4	178.4	170.4	99.1
87.5°	103.1	99.1	103.1	99.1	99.1	95.1	95.1	95.1	91.2	87.2	55.5
90°	23.5	23.5	23.5	23.5	23.5	31.3	41.8	47.0	40.4	27.2	17.3
92.5°	94.1	75.4	94.1	112.8	117.5	166.5	231.9	264.6	232.3	167.7	119.3
95°	328.0	271.4	328.0	384.6	398.8	523.7	690.2	773.5	653.3	412.8	232.5
97.5°	786.0	678.3	786.0	893.8	920.7	999.6	1104.9	1157.5	957.0	556.1	255.4
100°	1132.5	1004.2	1132.5	1260.8	1292.9	1287.1	1279.4	1275.6	1053.1	608.2	274.5
102.5°	1473.3	1363.4	1473.3	1583.2	1610.7	1510.1	1376.0	1309.0	1083.4	632.1	293.7
105°	1907.9	1848.8	1907.9	1966.9	1981.7	1756.2	1455.6	1305.3	1086.8	649.8	322.1
107.5°	2192.5	2206.8	2192.5	2178.3	2174.7	1860.2	1440.8	1231.1	1038.5	653.2	364.2
110°	2301.0	2362.6	2301.0	2239.5	2224.1	1872.5	1403.7	1169.3	995.6	648.2	387.7



TEST NUMBER: P934413

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2310.8	2405.3	2310.8	2216.2	2192.6	1832.7	1352.9	1113.0	958.1	648.4	416.1
115°	2249.5	2380.6	2249.5	2118.4	2085.6	1738.9	1276.7	1045.6	915.2	654.4	458.8
117.5°	2119.5	2264.9	2119.5	1974.1	1937.8	1624.9	1207.8	999.2	888.3	666.5	500.2
120°	2014.9	2156.1	2014.9	1873.6	1838.3	1552.4	1171.3	980.7	879.3	676.4	524.3
122.5°	1912.9	2052.2	1912.9	1773.5	1738.7	1481.3	1138.0	966.4	874.5	690.7	552.8
125°	1767.4	1895.8	1767.4	1639.1	1607.0	1388.3	1096.8	951.0	870.6	709.9	589.3
127.5°	1636.6	1744.9	1636.6	1528.4	1501.3	1313.5	1063.2	938.0	868.3	729.0	624.5
130°	1559.6	1659.6	1559.6	1459.5	1434.5	1267.4	1044.5	933.1	869.7	743.0	648.0
132.5°	1489.6	1579.2	1489.6	1400.0	1377.6	1228.0	1028.5	928.7	870.6	754.4	667.2
135°	1393.8	1471.0	1393.8	1316.6	1297.3	1172.0	1004.9	921.3	869.8	766.7	689.4
137.5°	1316.9	1380.1	1316.9	1253.7	1237.9	1132.0	990.7	920.1	875.2	785.3	717.9
140°	1264.1	1323.2	1264.1	1205.1	1190.3	1098.8	976.7	915.7	876.0	796.6	737.0
142.5°	1220.5	1271.3	1220.5	1169.6	1156.9	1076.5	969.3	915.7	879.2	806.1	751.3
145°	1154.9	1193.4	1154.9	1116.4	1106.8	1041.1	953.4	909.6	879.2	818.5	772.9
147.5°	1104.6	1136.5	1104.6	1072.8	1064.8	1013.1	944.1	909.6	885.3	836.6	800.1
150°	1072.9	1098.8	1072.9	1047.1	1040.6	996.9	938.7	909.6	888.4	846.1	814.3
152.5°	1045.9	1065.4	1045.9	1026.4	1021.5	984.2	934.5	909.6	890.5	852.3	823.6
155°	1014.8	1027.7	1014.8	1001.8	998.6	968.9	929.4	909.6	895.0	865.9	844.0
157.5°	990.1	999.2	990.1	981.1	978.8	955.7	925.0	909.6	899.6	879.5	864.4
160°	975.5	980.7	975.5	970.2	968.9	949.1	922.8	909.6	901.6	885.7	873.7
162.5°	965.8	970.8	965.8	960.8	959.6	942.9	920.7	909.6	903.8	892.3	883.6
165°	952.0	957.2	952.0	946.7	945.4	933.5	917.6	909.6	907.0	901.7	897.8
167.5°	942.0	944.2	942.0	939.8	939.2	931.4	920.9	915.7	913.5	909.1	905.8
170°	939.2	939.2	939.2	939.2	939.2	931.4	920.9	915.7	915.6	915.3	915.1
172.5°	931.9	930.0	931.9	933.8	934.3	928.1	919.8	915.7	915.7	915.7	915.7
175°	927.5	927.5	927.5	927.5	927.5	923.6	918.3	915.7	916.9	919.4	921.3
177.5°	923.5	921.3	923.5	925.7	926.3	923.2	919.1	917.0	918.0	919.9	921.3
180°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3



TEST NUMBER: P934413

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4249.1	4225.3	4225.3	4185.7	4169.8	4157.9	4138.1	4078.7	4062.8	4046.9	4070.7
5°	4284.8	4241.2	4209.5	4138.1	4078.7	4054.9	3979.6	3836.9	3741.7	3670.4	3630.8
7.5°	4292.7	4237.2	4177.7	4066.8	3924.1	3860.7	3630.8	3369.2	3297.8	3234.4	3194.7
10°	4284.8	4221.4	4138.1	3971.6	3634.7	3523.7	3293.8	3123.4	3079.8	3067.9	3079.8
12.5°	4257.0	4197.6	4082.6	3805.2	3333.5	3258.2	3123.4	3024.3	3016.4	3036.2	3143.2
15°	4209.5	4154.0	4019.2	3583.2	3167.0	3111.5	3016.4	2980.7	3024.3	3163.0	3484.1
17.5°	4161.9	4098.5	3932.0	3365.2	3040.2	3000.5	2933.1	3004.5	3250.2	3436.5	3543.6
20°	4098.5	4023.2	3832.9	3206.6	2949.0	2913.3	2881.6	3202.7	3389.0	3456.4	3515.8
22.5°	4023.2	3943.9	3698.1	3095.7	2853.9	2826.1	2845.9	3313.7	3389.0	3436.5	3488.1
25°	3924.1	3856.7	3539.6	3008.5	2778.6	2746.9	2822.2	3301.8	3345.4	3357.3	3460.3
27.5°	3832.9	3745.7	3373.1	2929.2	2687.4	2675.5	2842.0	3250.2	3282.0	3293.8	3404.8
30°	3721.9	3591.1	3186.8	2845.9	2592.3	2588.3	2845.9	3186.8	3178.9	3210.6	3321.6
32.5°	3607.0	3361.2	2976.7	2742.9	2501.1	2497.1	2818.2	3091.7	3083.8	3127.4	3210.6
35°	3500.0	3182.9	2691.4	2624.0	2386.2	2390.1	2750.8	2980.7	2984.7	3024.3	3075.8
37.5°	3389.0	3028.3	2378.2	2493.2	2275.2	2275.2	2659.6	2877.7	2869.7	2881.6	2953.0
40°	3258.2	2786.5	2100.8	2322.7	2172.1	2160.2	2548.7	2766.7	2738.9	2735.0	2834.1
42.5°	3119.4	2520.9	1894.7	2096.8	2053.2	2037.3	2413.9	2631.9	2580.4	2592.3	2719.1
45°	2968.8	2449.6	1736.1	1771.8	1930.3	1918.4	2267.2	2477.3	2441.6	2473.4	2604.2
47.5°	2818.2	2306.9	1684.6	1470.5	1799.5	1795.6	2104.7	2326.7	2306.9	2338.6	2477.3
50°	2612.1	2148.3	1680.6	1260.5	1652.9	1668.7	1910.5	2180.0	2180.0	2207.8	2354.4
52.5°	2346.5	1954.1	1526.0	1141.5	1482.4	1530.0	1740.1	2053.2	2061.1	2088.9	2219.7
55°	2104.7	1752.0	1415.0	1050.4	1280.3	1383.3	1573.6	1922.4	1938.3	1966.0	2084.9
57.5°	1882.8	1458.6	1391.3	943.4	1094.0	1193.1	1426.9	1795.6	1803.5	1827.3	1942.2
60°	1644.9	1054.3	1276.3	828.4	931.5	1006.8	1292.2	1644.9	1672.7	1688.5	1787.6
62.5°	1375.4	765.0	1157.4	749.1	852.2	868.1	1181.2	1502.2	1537.9	1549.8	1609.3
65°	979.0	642.1	983.0	681.8	769.0	772.9	1062.3	1355.6	1387.3	1407.1	1450.7
67.5°	661.9	523.2	749.1	618.3	705.5	709.5	947.3	1185.1	1228.7	1244.6	1272.4
70°	459.8	348.8	554.9	551.0	634.2	642.1	824.5	1030.6	1070.2	1082.1	1097.9
72.5°	336.9	281.4	459.8	495.5	558.9	566.8	697.6	856.2	895.8	907.7	915.6
75°	257.6	297.3	372.6	432.0	475.6	479.6	570.8	697.6	725.4	733.3	737.2
77.5°	206.1	277.5	273.5	348.8	388.4	380.5	447.9	539.1	562.8	562.8	562.8
80°	154.6	218.0	206.1	249.7	285.4	277.5	321.1	384.5	392.4	400.3	396.4
82.5°	114.9	138.7	138.7	158.5	190.3	182.3	214.0	249.7	249.7	249.7	257.6
85°	71.3	79.3	63.4	83.2	107.0	103.1	118.9	134.8	138.7	138.7	130.8
87.5°	43.6	35.7	19.8	31.7	47.6	47.6	55.5	59.5	55.5	55.5	55.5
90°	16.1	11.1	6.2	11.1	16.1	17.3	27.2	40.4	47.0	41.8	31.3
92.5°	108.8	66.7	24.7	66.7	108.8	119.3	167.7	232.3	264.6	231.9	166.5
95°	213.3	136.3	59.4	136.3	213.3	232.5	412.8	653.3	773.5	690.2	523.7
97.5°	238.4	170.5	102.6	170.5	238.4	255.4	556.1	957.0	1157.5	1104.9	999.6
100°	259.1	197.6	136.0	197.6	259.1	274.5	608.2	1053.1	1275.6	1279.4	1287.1
102.5°	279.3	221.9	164.5	221.9	279.3	293.7	632.1	1083.4	1309.0	1376.0	1510.1
105°	309.9	261.3	212.7	261.3	309.9	322.1	649.8	1086.8	1305.3	1455.6	1756.2
107.5°	352.9	307.5	262.2	307.5	352.9	364.2	653.2	1038.5	1231.1	1440.8	1860.2
110°	377.5	336.5	295.6	336.5	377.5	387.7	648.2	995.6	1169.3	1403.7	1872.5



TEST NUMBER: P934413

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	406.3	367.3	328.3	367.3	406.3	416.1	648.4	958.1	1113.0	1352.9	1832.7
115°	449.8	413.8	377.8	413.8	449.8	458.8	654.4	915.2	1045.6	1276.7	1738.9
117.5°	492.0	459.3	426.6	459.3	492.0	500.2	666.5	888.3	999.2	1207.8	1624.9
120°	516.6	485.9	455.1	485.9	516.6	524.3	676.4	879.3	980.7	1171.3	1552.4
122.5°	545.0	514.0	482.9	514.0	545.0	552.8	690.7	874.5	966.4	1138.0	1481.3
125°	582.2	553.9	525.6	553.9	582.2	589.3	709.9	870.6	951.0	1096.8	1388.3
127.5°	617.4	588.8	560.2	588.8	617.4	624.5	729.0	868.3	938.0	1063.2	1313.5
130°	640.3	609.6	578.8	609.6	640.3	648.0	743.0	869.7	933.1	1044.5	1267.4
132.5°	659.5	628.7	597.9	628.7	659.5	667.2	754.4	870.6	928.7	1028.5	1228.0
135°	682.4	654.4	626.4	654.4	682.4	689.4	766.7	869.8	921.3	1004.9	1172.0
137.5°	711.0	683.2	655.4	683.2	711.0	717.9	785.3	875.2	920.1	990.7	1132.0
140°	730.6	705.1	679.5	705.1	730.6	737.0	796.6	876.0	915.7	976.7	1098.8
142.5°	745.4	721.7	698.1	721.7	745.4	751.3	806.1	879.2	915.7	969.3	1076.5
145°	767.7	747.1	726.5	747.1	767.7	772.9	818.5	879.2	909.6	953.4	1041.1
147.5°	795.1	775.0	755.0	775.0	795.1	800.1	836.6	885.3	909.6	944.1	1013.1
150°	809.8	791.6	773.5	791.6	809.8	814.3	846.1	888.4	909.6	938.7	996.9
152.5°	820.2	806.4	792.7	806.4	820.2	823.6	852.3	890.5	909.6	934.5	984.2
155°	841.5	831.3	821.1	831.3	841.5	844.0	865.9	895.0	909.6	929.4	968.9
157.5°	861.9	852.1	842.2	852.1	861.9	864.4	879.5	899.6	909.6	925.0	955.7
160°	871.8	864.1	856.4	864.1	871.8	873.7	885.7	901.6	909.6	922.8	949.1
162.5°	882.2	876.4	870.6	876.4	882.2	883.6	892.3	903.8	909.6	920.7	942.9
165°	896.5	891.3	886.1	891.3	896.5	897.8	901.7	907.0	909.6	917.6	933.5
167.5°	905.2	902.7	900.3	902.7	905.2	905.8	909.1	913.5	915.7	920.9	931.4
170°	914.5	912.0	909.6	912.0	914.5	915.1	915.3	915.6	915.7	920.9	931.4
172.5°	915.6	915.0	914.5	915.0	915.6	915.7	915.7	915.7	915.7	919.8	928.1
175°	921.3	921.3	921.3	921.3	921.3	921.3	919.4	916.9	915.7	918.3	923.6
177.5°	921.3	921.3	921.3	921.3	921.3	921.3	919.9	918.0	917.0	919.1	923.2
180°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3



TEST NUMBER: P934413

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4043.0	4031.1	4046.9	4003.3	4046.9	4031.1	4043.0	4070.7	4046.9	4062.8	4078.7
5°	3547.5	3527.7	3464.3	3412.8	3464.3	3527.7	3547.5	3630.8	3670.4	3741.7	3836.9
7.5°	3171.0	3155.1	3139.3	3107.5	3139.3	3155.1	3171.0	3194.7	3234.4	3297.8	3369.2
10°	3087.7	3091.7	3115.5	3111.5	3115.5	3091.7	3087.7	3079.8	3067.9	3079.8	3123.4
12.5°	3301.8	3337.4	3468.2	3460.3	3468.2	3337.4	3301.8	3143.2	3036.2	3016.4	3024.3
15°	3547.5	3559.4	3587.2	3591.1	3587.2	3559.4	3547.5	3484.1	3163.0	3024.3	2980.7
17.5°	3571.3	3575.3	3595.1	3595.1	3595.1	3575.3	3571.3	3543.6	3436.5	3250.2	3004.5
20°	3551.5	3559.4	3599.0	3607.0	3599.0	3559.4	3551.5	3515.8	3456.4	3389.0	3202.7
22.5°	3543.6	3559.4	3591.1	3587.2	3591.1	3559.4	3543.6	3488.1	3436.5	3389.0	3313.7
25°	3503.9	3503.9	3507.9	3511.8	3507.9	3503.9	3503.9	3460.3	3357.3	3345.4	3301.8
27.5°	3420.7	3428.6	3452.4	3448.4	3452.4	3428.6	3420.7	3404.8	3293.8	3282.0	3250.2
30°	3345.4	3337.4	3317.6	3301.8	3317.6	3337.4	3345.4	3321.6	3210.6	3178.9	3186.8
32.5°	3218.5	3198.7	3178.9	3167.0	3178.9	3198.7	3218.5	3210.6	3127.4	3083.8	3091.7
35°	3067.9	3071.9	3067.9	3056.0	3067.9	3071.9	3067.9	3075.8	3024.3	2984.7	2980.7
37.5°	2960.9	2968.8	2964.9	2949.0	2964.9	2968.8	2960.9	2953.0	2881.6	2869.7	2877.7
40°	2849.9	2853.9	2849.9	2838.0	2849.9	2853.9	2849.9	2834.1	2735.0	2738.9	2766.7
42.5°	2742.9	2738.9	2727.0	2719.1	2727.0	2738.9	2742.9	2719.1	2592.3	2580.4	2631.9
45°	2620.0	2624.0	2600.2	2588.3	2600.2	2624.0	2620.0	2604.2	2473.4	2441.6	2477.3
47.5°	2497.1	2497.1	2477.3	2465.4	2477.3	2497.1	2497.1	2477.3	2338.6	2306.9	2326.7
50°	2366.3	2362.4	2334.6	2330.7	2334.6	2362.4	2366.3	2354.4	2207.8	2180.0	2180.0
52.5°	2215.7	2215.7	2219.7	2227.6	2219.7	2215.7	2215.7	2219.7	2088.9	2061.1	2053.2
55°	2084.9	2088.9	2116.6	2124.5	2116.6	2088.9	2084.9	2084.9	1966.0	1938.3	1922.4
57.5°	1950.1	1950.1	1970.0	1970.0	1970.0	1950.1	1950.1	1942.2	1827.3	1803.5	1795.6
60°	1795.6	1803.5	1819.3	1815.4	1819.3	1803.5	1795.6	1787.6	1688.5	1672.7	1644.9
62.5°	1633.0	1641.0	1644.9	1637.0	1644.9	1641.0	1633.0	1609.3	1549.8	1537.9	1502.2
65°	1462.6	1470.5	1474.5	1466.6	1474.5	1470.5	1462.6	1450.7	1407.1	1387.3	1355.6
67.5°	1288.2	1284.2	1280.3	1296.1	1280.3	1284.2	1288.2	1272.4	1244.6	1228.7	1185.1
70°	1109.8	1109.8	1105.9	1113.8	1105.9	1109.8	1109.8	1097.9	1082.1	1070.2	1030.6
72.5°	919.6	915.6	931.5	919.6	931.5	915.6	919.6	915.6	907.7	895.8	856.2
75°	733.3	741.2	733.3	745.2	733.3	741.2	733.3	737.2	733.3	725.4	697.6
77.5°	558.9	566.8	558.9	558.9	558.9	566.8	558.9	562.8	562.8	562.8	539.1
80°	396.4	392.4	392.4	388.4	392.4	392.4	396.4	396.4	400.3	392.4	384.5
82.5°	253.7	249.7	249.7	257.6	249.7	249.7	253.7	257.6	249.7	249.7	249.7
85°	138.7	142.7	134.8	134.8	134.8	142.7	138.7	130.8	138.7	138.7	134.8
87.5°	51.5	47.6	47.6	47.6	47.6	47.6	51.5	55.5	55.5	55.5	59.5
90°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	31.3	41.8	47.0	40.4
92.5°	117.5	112.8	94.1	75.4	94.1	112.8	117.5	166.5	231.9	264.6	232.3
95°	398.8	384.6	328.0	271.4	328.0	384.6	398.8	523.7	690.2	773.5	653.3
97.5°	920.7	893.8	786.0	678.3	786.0	893.8	920.7	999.6	1104.9	1157.5	957.0
100°	1292.9	1260.8	1132.5	1004.2	1132.5	1260.8	1292.9	1287.1	1279.4	1275.6	1053.1
102.5°	1610.7	1583.2	1473.3	1363.4	1473.3	1583.2	1610.7	1510.1	1376.0	1309.0	1083.4
105°	1981.7	1966.9	1907.9	1848.8	1907.9	1966.9	1981.7	1756.2	1455.6	1305.3	1086.8
107.5°	2174.7	2178.3	2192.5	2206.8	2192.5	2178.3	2174.7	1860.2	1440.8	1231.1	1038.5
110°	2224.1	2239.5	2301.0	2362.6	2301.0	2239.5	2224.1	1872.5	1403.7	1169.3	995.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2192.6	2216.2	2310.8	2405.3	2310.8	2216.2	2192.6	1832.7	1352.9	1113.0	958.1
115°	2085.6	2118.4	2249.5	2380.6	2249.5	2118.4	2085.6	1738.9	1276.7	1045.6	915.2
117.5°	1937.8	1974.1	2119.5	2264.9	2119.5	1974.1	1937.8	1624.9	1207.8	999.2	888.3
120°	1838.3	1873.6	2014.9	2156.1	2014.9	1873.6	1838.3	1552.4	1171.3	980.7	879.3
122.5°	1738.7	1773.5	1912.9	2052.2	1912.9	1773.5	1738.7	1481.3	1138.0	966.4	874.5
125°	1607.0	1639.1	1767.4	1895.8	1767.4	1639.1	1607.0	1388.3	1096.8	951.0	870.6
127.5°	1501.3	1528.4	1636.6	1744.9	1636.6	1528.4	1501.3	1313.5	1063.2	938.0	868.3
130°	1434.5	1459.5	1559.6	1659.6	1559.6	1459.5	1434.5	1267.4	1044.5	933.1	869.7
132.5°	1377.6	1400.0	1489.6	1579.2	1489.6	1400.0	1377.6	1228.0	1028.5	928.7	870.6
135°	1297.3	1316.6	1393.8	1471.0	1393.8	1316.6	1297.3	1172.0	1004.9	921.3	869.8
137.5°	1237.9	1253.7	1316.9	1380.1	1316.9	1253.7	1237.9	1132.0	990.7	920.1	875.2
140°	1190.3	1205.1	1264.1	1323.2	1264.1	1205.1	1190.3	1098.8	976.7	915.7	876.0
142.5°	1156.9	1169.6	1220.5	1271.3	1220.5	1169.6	1156.9	1076.5	969.3	915.7	879.2
145°	1106.8	1116.4	1154.9	1193.4	1154.9	1116.4	1106.8	1041.1	953.4	909.6	879.2
147.5°	1064.8	1072.8	1104.6	1136.5	1104.6	1072.8	1064.8	1013.1	944.1	909.6	885.3
150°	1040.6	1047.1	1072.9	1098.8	1072.9	1047.1	1040.6	996.9	938.7	909.6	888.4
152.5°	1021.5	1026.4	1045.9	1065.4	1045.9	1026.4	1021.5	984.2	934.5	909.6	890.5
155°	998.6	1001.8	1014.8	1027.7	1014.8	1001.8	998.6	968.9	929.4	909.6	895.0
157.5°	978.8	981.1	990.1	999.2	990.1	981.1	978.8	955.7	925.0	909.6	899.6
160°	968.9	970.2	975.5	980.7	975.5	970.2	968.9	949.1	922.8	909.6	901.6
162.5°	959.6	960.8	965.8	970.8	965.8	960.8	959.6	942.9	920.7	909.6	903.8
165°	945.4	946.7	952.0	957.2	952.0	946.7	945.4	933.5	917.6	909.6	907.0
167.5°	939.2	939.8	942.0	944.2	942.0	939.8	939.2	931.4	920.9	915.7	913.5
170°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	931.4	920.9	915.7	915.6
172.5°	934.3	933.8	931.9	930.0	931.9	933.8	934.3	928.1	919.8	915.7	915.7
175°	927.5	927.5	927.5	927.5	927.5	927.5	927.5	923.6	918.3	915.7	916.9
177.5°	926.3	925.7	923.5	921.3	923.5	925.7	926.3	923.2	919.1	917.0	918.0
180°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4138.1	4157.9	4169.8	4185.7	4225.3
5°	3979.6	4054.9	4078.7	4138.1	4209.5
7.5°	3630.8	3860.7	3924.1	4066.8	4177.7
10°	3293.8	3523.7	3634.7	3971.6	4138.1
12.5°	3123.4	3258.2	3333.5	3805.2	4082.6
15°	3016.4	3111.5	3167.0	3583.2	4019.2
17.5°	2933.1	3000.5	3040.2	3365.2	3932.0
20°	2881.6	2913.3	2949.0	3206.6	3832.9
22.5°	2845.9	2826.1	2853.9	3095.7	3698.1
25°	2822.2	2746.9	2778.6	3008.5	3539.6
27.5°	2842.0	2675.5	2687.4	2929.2	3373.1
30°	2845.9	2588.3	2592.3	2845.9	3186.8
32.5°	2818.2	2497.1	2501.1	2742.9	2976.7
35°	2750.8	2390.1	2386.2	2624.0	2691.4
37.5°	2659.6	2275.2	2275.2	2493.2	2378.2
40°	2548.7	2160.2	2172.1	2322.7	2100.8
42.5°	2413.9	2037.3	2053.2	2096.8	1894.7
45°	2267.2	1918.4	1930.3	1771.8	1736.1
47.5°	2104.7	1795.6	1799.5	1470.5	1684.6
50°	1910.5	1668.7	1652.9	1260.5	1680.6
52.5°	1740.1	1530.0	1482.4	1141.5	1526.0
55°	1573.6	1383.3	1280.3	1050.4	1415.0
57.5°	1426.9	1193.1	1094.0	943.4	1391.3
60°	1292.2	1006.8	931.5	828.4	1276.3
62.5°	1181.2	868.1	852.2	749.1	1157.4
65°	1062.3	772.9	769.0	681.8	983.0
67.5°	947.3	709.5	705.5	618.3	749.1
70°	824.5	642.1	634.2	551.0	554.9
72.5°	697.6	566.8	558.9	495.5	459.8
75°	570.8	479.6	475.6	432.0	372.6
77.5°	447.9	380.5	388.4	348.8	273.5
80°	321.1	277.5	285.4	249.7	206.1
82.5°	214.0	182.3	190.3	158.5	138.7
85°	118.9	103.1	107.0	83.2	63.4
87.5°	55.5	47.6	47.6	31.7	19.8
90°	27.2	17.3	16.1	11.1	6.2
92.5°	167.7	119.3	108.8	66.7	24.7
95°	412.8	232.5	213.3	136.3	59.4
97.5°	556.1	255.4	238.4	170.5	102.6
100°	608.2	274.5	259.1	197.6	136.0
102.5°	632.1	293.7	279.3	221.9	164.5
105°	649.8	322.1	309.9	261.3	212.7
107.5°	653.2	364.2	352.9	307.5	262.2
110°	648.2	387.7	377.5	336.5	295.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	648.4	416.1	406.3	367.3	328.3
115°	654.4	458.8	449.8	413.8	377.8
117.5°	666.5	500.2	492.0	459.3	426.6
120°	676.4	524.3	516.6	485.9	455.1
122.5°	690.7	552.8	545.0	514.0	482.9
125°	709.9	589.3	582.2	553.9	525.6
127.5°	729.0	624.5	617.4	588.8	560.2
130°	743.0	648.0	640.3	609.6	578.8
132.5°	754.4	667.2	659.5	628.7	597.9
135°	766.7	689.4	682.4	654.4	626.4
137.5°	785.3	717.9	711.0	683.2	655.4
140°	796.6	737.0	730.6	705.1	679.5
142.5°	806.1	751.3	745.4	721.7	698.1
145°	818.5	772.9	767.7	747.1	726.5
147.5°	836.6	800.1	795.1	775.0	755.0
150°	846.1	814.3	809.8	791.6	773.5
152.5°	852.3	823.6	820.2	806.4	792.7
155°	865.9	844.0	841.5	831.3	821.1
157.5°	879.5	864.4	861.9	852.1	842.2
160°	885.7	873.7	871.8	864.1	856.4
162.5°	892.3	883.6	882.2	876.4	870.6
165°	901.7	897.8	896.5	891.3	886.1
167.5°	909.1	905.8	905.2	902.7	900.3
170°	915.3	915.1	914.5	912.0	909.6
172.5°	915.7	915.7	915.6	915.0	914.5
175°	919.4	921.3	921.3	921.3	921.3
177.5°	919.9	921.3	921.3	921.3	921.3
180°	921.3	921.3	921.3	921.3	921.3



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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	14.96	15.96	15.78	16.81	17.86	17.81	18.82	18.63	19.66	20.71
	3H	15.44	16.35	16.28	17.20	18.28	19.17	20.08	20.00	20.93	22.00
	4H	15.64	16.50	16.49	17.36	18.44	19.63	20.48	20.48	21.34	22.43
	6H	15.77	16.56	16.63	17.42	18.52	19.92	20.71	20.79	21.58	22.68
	8H	15.77	16.52	16.65	17.41	18.51	20.01	20.76	20.88	21.64	22.74
	12H	15.75	16.46	16.63	17.34	18.47	20.05	20.77	20.93	21.65	22.77
4H	2H	16.01	16.87	16.87	17.73	18.81	18.23	19.09	19.09	19.95	21.03
	3H	17.05	17.76	17.92	18.66	19.76	19.76	20.47	20.63	21.36	22.47
	4H	17.33	17.98	18.21	18.87	20.00	20.30	20.95	21.18	21.84	22.96
	6H	17.47	18.03	18.36	18.94	20.07	20.68	21.24	21.57	22.15	23.28
	8H	17.48	18.00	18.37	18.91	20.05	20.79	21.31	21.69	22.22	23.37
	12H	17.45	17.92	18.37	18.85	20.00	20.86	21.33	21.78	22.26	23.41
8H	4H	17.80	18.33	18.70	19.24	20.38	20.43	20.96	21.33	21.87	23.01
	6H	18.07	18.50	19.00	19.45	20.60	20.88	21.31	21.81	22.27	23.41
	8H	18.11	18.50	19.05	19.44	20.60	21.04	21.42	21.97	22.36	23.53
	12H	18.11	18.44	19.04	19.38	20.59	21.15	21.49	22.09	22.42	23.63
12H	4H	17.82	18.29	18.73	19.22	20.37	20.40	20.88	21.32	21.80	22.95
	6H	18.13	18.52	19.07	19.46	20.62	20.88	21.26	21.81	22.21	23.37
	8H	18.21	18.55	19.15	19.48	20.69	21.05	21.39	21.99	22.32	23.54