

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: P935702

Luminaire Tested: SQ4-FA-125U-100D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935702
REPORT IS A COMBINATION OF REPORTS P933762 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-100D-B40-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

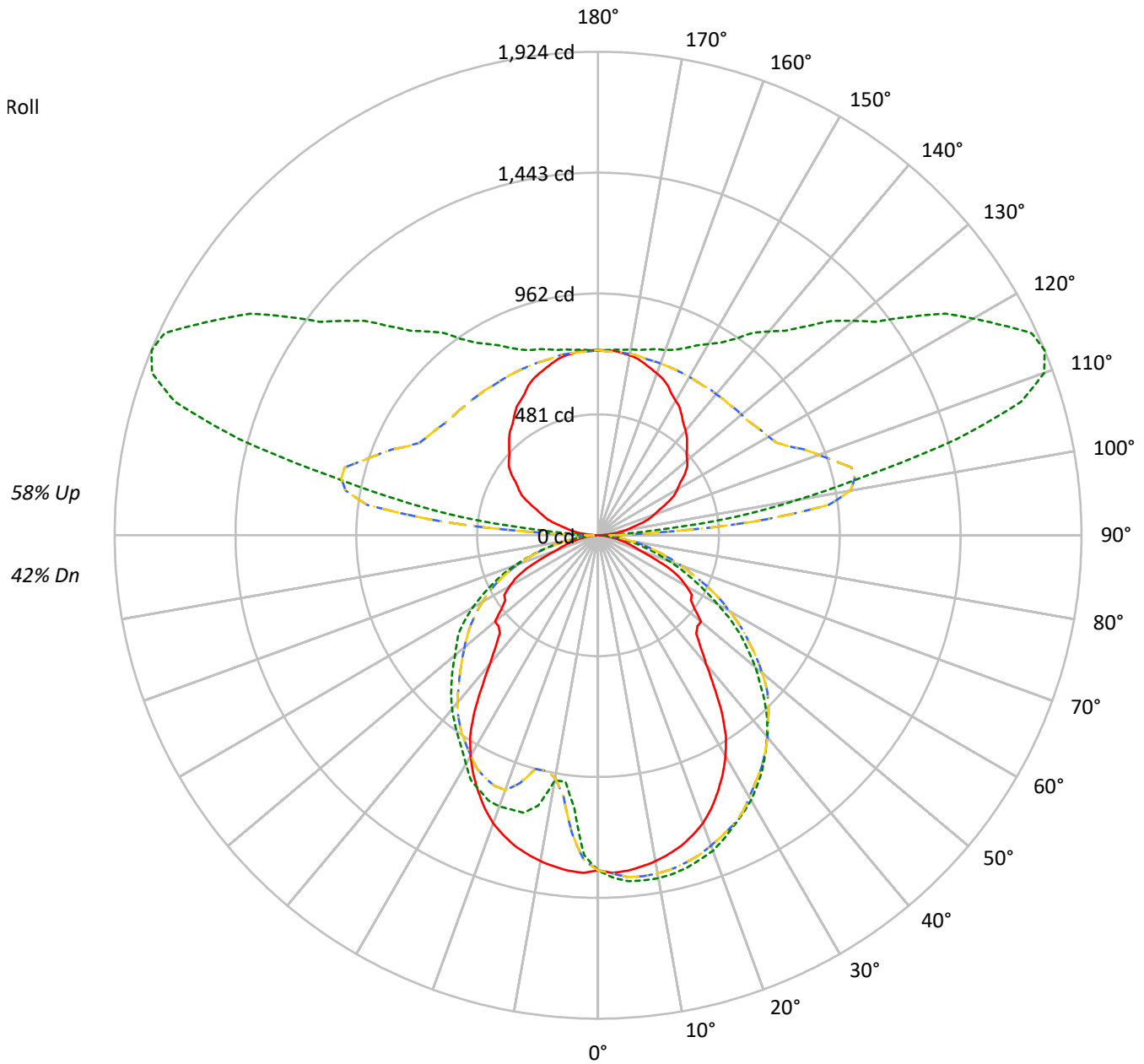
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8236.9 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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



— 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	41	41	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	35	35	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	30	30	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	25	25	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	22	22	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	19	19	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	15	15	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	14	14	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12376	12376	12376	12376
5°	12455	12493	12455	9823
10°	12358	12306	12358	8798
15°	12209	12039	12209	10052
20°	11940	11723	11940	10074
25°	11404	11263	11404	9860
30°	10715	10880	10715	9392
35°	9538	10397	9538	8877
40°	7935	9827	7935	8487
45°	7076	9161	7076	8041
50°	7500	8366	7500	7591
55°	7037	7510	7037	7331
60°	7227	6376	7227	6715
65°	6523	5271	6523	5893
70°	4486	4202	4486	4940
75°	3889	3106	3889	3719
80°	3070	2052	3070	2236
85°	1673	1086	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10866 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.5
10°-20°	341.8	4.1
20°-30°	528.4	6.4
30°-40°	630.8	7.7
40°-50°	634.5	7.7
50°-60°	552.1	6.7
60°-70°	391.4	4.8
70°-80°	207.1	2.5
80°-90°	54.4	0.7
90°-100°	359.1	4.4
100°-110°	944.2	11.5
110°-120°	979.0	11.9
120°-130°	785.3	9.5
130°-140°	616.2	7.5
140°-150°	472.9	5.7
150°-160°	340.6	4.1
160°-170°	208.4	2.5
170°-180°	70.4	0.9
0°-30°	990.6	12.0
0°-40°	1621.4	19.7
0°-60°	2808.0	34.1
0°-90°	3460.9	42.0
90°-120°	2282.3	27.7
90°-150°	4156.6	50.5
90°-180°	4776.0	58.0
0°-180°	8236.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1334	1334	1334	1334	1334	
5°	1340	1382	1340	1086	1340	127
15°	1279	1369	1279	1143	1279	360
25°	1127	1277	1127	1118	1127	517
35°	857	1139	857	973	857	530
45°	553	939	553	824	553	443
55°	450	693	450	676	450	414
65°	313	418	313	467	313	299
75°	119	198	119	237	119	125
85°	20	50	20	43	20	27
90°	5	19	5	19	5	5
95°	48	217	48	217	48	53
105°	170	1478	170	1478	170	180
115°	302	1904	302	1904	302	298
125°	420	1516	420	1516	420	373
135°	501	1176	501	1176	501	388
145°	581	954	581	954	581	364
155°	657	822	657	822	657	302
165°	708	765	708	765	708	200
175°	737	742	737	742	737	70
180°	737	737	737	737	737	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1345.0	1345.0	1352.7	1355.1	1355.1	1351.3	1347.6	1351.3	1362.7	1366.5	1365.3
5°	1340.1	1350.1	1364.0	1366.5	1369.0	1367.8	1365.3	1367.8	1380.4	1382.9	1384.2
7.5°	1329.9	1348.8	1366.5	1370.3	1374.1	1370.3	1369.0	1371.6	1384.2	1386.7	1386.7
10°	1317.3	1343.8	1364.0	1366.5	1370.3	1366.5	1366.5	1371.6	1384.2	1386.7	1388.0
12.5°	1299.7	1336.2	1355.1	1357.7	1362.7	1361.4	1360.2	1365.3	1377.9	1380.4	1380.4
15°	1279.4	1322.4	1340.1	1342.5	1351.3	1348.8	1348.8	1353.9	1367.8	1371.6	1370.3
17.5°	1251.7	1304.7	1324.9	1328.7	1335.0	1333.7	1335.0	1340.1	1352.7	1355.1	1356.4
20°	1220.1	1280.8	1304.7	1308.4	1314.7	1314.7	1314.7	1321.1	1333.7	1338.7	1338.7
22.5°	1177.2	1255.4	1280.8	1283.2	1290.8	1290.8	1293.4	1302.1	1313.5	1314.7	1314.7
25°	1126.8	1227.7	1249.1	1256.8	1264.3	1268.0	1271.9	1276.9	1280.8	1279.4	1280.8
27.5°	1073.8	1192.4	1220.1	1225.2	1235.3	1239.1	1244.1	1245.4	1246.7	1250.4	1247.9
30°	1014.5	1143.1	1184.8	1189.8	1206.3	1208.7	1203.8	1206.3	1212.6	1215.1	1217.6
32.5°	947.6	1070.0	1148.2	1159.6	1174.7	1167.1	1165.9	1169.7	1179.8	1179.8	1182.3
35°	856.7	1013.3	1114.2	1124.2	1135.6	1126.8	1131.8	1133.1	1139.4	1143.1	1141.9
37.5°	757.0	964.0	1078.9	1086.4	1095.2	1083.8	1091.5	1095.2	1100.3	1097.8	1097.8
40°	668.8	887.0	1037.2	1042.2	1049.8	1041.0	1048.5	1051.1	1053.6	1051.1	1049.8
42.5°	603.2	802.5	993.0	999.3	994.3	1000.6	1003.1	1008.2	1004.4	999.3	999.3
45°	552.7	779.8	945.1	952.6	945.1	955.2	958.9	958.9	947.6	945.1	943.8
47.5°	536.2	734.4	897.1	897.1	893.3	905.9	912.3	903.4	892.1	888.3	888.3
50°	535.0	683.9	831.5	826.5	844.1	859.3	853.0	844.1	835.3	821.4	821.4
52.5°	485.8	622.1	747.0	765.9	793.7	802.5	792.4	783.6	768.4	762.1	757.0
55°	450.5	557.7	670.0	707.8	736.9	748.2	729.3	720.5	697.7	694.0	691.4
57.5°	442.9	464.3	599.4	647.3	682.6	681.4	670.0	653.6	634.7	630.9	629.6
60°	406.3	335.6	523.6	580.4	617.0	613.2	603.2	588.0	570.3	567.8	565.3
62.5°	368.4	243.5	437.9	502.2	553.9	552.7	543.9	521.1	508.5	502.2	497.2
65°	313.0	204.4	311.6	417.6	492.1	494.6	475.7	459.3	445.4	437.9	436.5
67.5°	238.5	166.6	210.7	348.3	432.8	430.2	406.3	398.7	381.0	377.2	369.7
70°	176.7	111.1	146.4	282.7	374.7	368.4	349.5	340.6	324.3	315.4	310.4
72.5°	146.4	89.6	107.2	219.6	315.4	307.9	291.5	281.3	267.5	260.0	254.9
75°	118.6	94.6	82.0	162.7	256.1	251.1	236.0	225.9	214.5	204.4	205.7
77.5°	87.1	88.3	65.6	119.9	203.1	195.6	186.7	174.1	169.0	159.0	159.0
80°	65.6	69.4	49.2	82.0	146.4	146.4	138.8	130.0	121.1	116.1	116.1
82.5°	44.1	44.1	36.6	51.8	99.7	95.9	90.8	88.3	83.3	80.8	80.8
85°	20.2	25.2	22.7	31.5	54.2	56.8	56.8	54.2	53.0	50.4	51.8
87.5°	6.3	11.4	13.8	17.7	27.8	29.0	30.3	30.3	30.3	31.5	31.5
90°	5.0	8.9	12.9	13.8	21.8	32.3	37.5	33.3	25.0	18.8	18.8
92.5°	19.8	53.4	87.0	95.4	134.2	185.8	211.6	185.5	133.2	94.0	90.2
95°	47.5	109.0	170.6	185.9	330.1	522.4	618.6	552.0	418.9	319.0	307.6
97.5°	82.0	136.3	190.6	204.2	444.6	765.2	925.6	883.5	799.3	736.2	714.7
100°	108.8	158.1	207.2	219.6	486.4	842.1	1020.0	1023.1	1029.3	1033.9	1008.2
102.5°	131.5	177.4	223.4	234.8	505.5	866.4	1046.8	1100.4	1207.7	1288.1	1266.1
105°	170.1	209.0	247.9	257.7	519.7	869.1	1043.8	1164.0	1404.4	1584.7	1572.9
107.5°	209.6	245.9	282.2	291.3	522.4	830.5	984.5	1152.2	1487.5	1739.0	1741.8
110°	236.4	269.1	301.8	310.0	518.4	796.2	935.0	1122.5	1497.4	1778.6	1790.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.5	293.8	324.9	332.7	518.5	766.2	890.1	1081.9	1465.6	1753.4	1772.3
115°	302.1	330.9	359.7	366.9	523.3	731.8	836.1	1020.9	1390.6	1667.8	1694.0
117.5°	341.2	367.4	393.6	400.0	533.1	710.4	799.0	965.8	1299.4	1549.6	1578.6
120°	364.0	388.6	413.2	419.3	541.0	703.2	784.2	936.7	1241.4	1470.0	1498.3
122.5°	386.2	411.0	435.9	442.1	552.4	699.3	772.9	910.1	1184.6	1390.4	1418.3
125°	420.3	442.9	465.6	471.2	567.7	696.2	760.5	877.1	1110.2	1285.0	1310.7
127.5°	448.0	470.8	493.6	499.4	582.9	694.4	750.1	850.1	1050.4	1200.5	1222.2
130°	462.8	487.4	512.1	518.2	594.2	695.5	746.1	835.2	1013.4	1147.1	1167.1
132.5°	478.2	502.8	527.4	533.6	603.3	696.2	742.7	822.4	982.0	1101.7	1119.5
135°	500.9	523.3	545.7	551.3	613.1	695.5	736.8	803.6	937.2	1037.4	1052.9
137.5°	524.1	546.3	568.5	574.1	627.9	699.8	735.7	792.2	905.1	989.9	1002.5
140°	543.4	563.8	584.3	589.4	637.1	700.6	732.3	781.1	878.7	951.8	963.7
142.5°	558.2	577.1	596.0	600.8	644.6	703.1	732.3	775.2	860.8	925.1	935.2
145°	581.0	597.4	614.0	618.1	654.5	703.1	727.3	762.4	832.5	885.1	892.8
147.5°	603.8	619.8	635.8	639.8	669.0	707.8	727.3	754.9	810.1	851.5	857.9
150°	618.6	633.1	647.6	651.2	676.6	710.4	727.3	750.6	797.2	832.2	837.3
152.5°	633.9	644.9	655.9	658.7	681.6	712.0	727.3	747.2	787.0	816.8	820.7
155°	656.7	664.8	672.9	674.9	692.4	715.7	727.3	743.2	774.8	798.6	801.1
157.5°	673.5	681.4	689.2	691.2	703.3	719.3	727.3	739.6	764.3	782.7	784.5
160°	684.8	690.9	697.2	698.7	708.2	720.9	727.3	737.8	758.9	774.8	775.8
162.5°	696.2	700.8	705.5	706.6	713.5	722.7	727.3	736.2	754.1	767.4	768.4
165°	708.5	712.7	716.9	718.0	721.1	725.2	727.3	733.7	746.4	756.0	757.0
167.5°	720.0	721.9	723.9	724.4	727.0	730.6	732.3	736.5	744.8	751.1	751.6
170°	727.3	729.3	731.3	731.8	732.0	732.2	732.3	736.5	744.8	751.1	751.1
172.5°	731.3	731.7	732.2	732.3	732.3	732.3	732.3	735.5	742.1	747.1	746.7
175°	736.8	736.8	736.8	736.8	735.3	733.2	732.3	734.4	738.5	741.7	741.7
177.5°	736.8	736.8	736.8	736.8	735.6	734.0	733.2	734.9	738.2	740.7	740.2
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1367.8	1364.0	1367.8	1365.3	1366.5	1362.7	1351.3	1347.6	1351.3	1355.1	1355.1
5°	1384.2	1381.7	1384.2	1384.2	1382.9	1380.4	1367.8	1365.3	1367.8	1369.0	1366.5
7.5°	1389.2	1385.4	1389.2	1386.7	1386.7	1384.2	1371.6	1369.0	1370.3	1374.1	1370.3
10°	1389.2	1385.4	1389.2	1388.0	1386.7	1384.2	1371.6	1366.5	1366.5	1370.3	1366.5
12.5°	1382.9	1380.4	1382.9	1380.4	1380.4	1377.9	1365.3	1360.2	1361.4	1362.7	1357.7
15°	1372.8	1369.0	1372.8	1370.3	1371.6	1367.8	1353.9	1348.8	1348.8	1351.3	1342.5
17.5°	1357.7	1352.7	1357.7	1356.4	1355.1	1352.7	1340.1	1335.0	1333.7	1335.0	1328.7
20°	1340.1	1336.2	1340.1	1338.7	1338.7	1333.7	1321.1	1314.7	1314.7	1314.7	1308.4
22.5°	1312.3	1308.4	1312.3	1314.7	1314.7	1313.5	1302.1	1293.4	1290.8	1290.8	1283.2
25°	1280.8	1276.9	1280.8	1280.8	1279.4	1280.8	1276.9	1271.9	1268.0	1264.3	1256.8
27.5°	1250.4	1247.9	1250.4	1247.9	1250.4	1246.7	1245.4	1244.1	1239.1	1235.3	1225.2
30°	1220.1	1217.6	1220.1	1217.6	1215.1	1212.6	1206.3	1203.8	1208.7	1206.3	1189.8
32.5°	1182.3	1179.8	1182.3	1182.3	1179.8	1179.8	1169.7	1165.9	1167.1	1174.7	1159.6
35°	1143.1	1139.4	1143.1	1141.9	1143.1	1139.4	1133.1	1131.8	1126.8	1135.6	1124.2
37.5°	1097.8	1094.0	1097.8	1097.8	1097.8	1100.3	1095.2	1091.5	1083.8	1095.2	1086.4
40°	1051.1	1046.0	1051.1	1049.8	1051.1	1053.6	1051.1	1048.5	1041.0	1049.8	1042.2
42.5°	998.1	996.8	998.1	999.3	999.3	1004.4	1008.2	1003.1	1000.6	994.3	999.3
45°	941.2	938.8	941.2	943.8	945.1	947.6	958.9	958.9	955.2	945.1	952.6
47.5°	880.7	874.4	880.7	888.3	888.3	892.1	903.4	912.3	905.9	893.3	897.1
50°	816.3	817.7	816.3	821.4	821.4	835.3	844.1	853.0	859.3	844.1	826.5
52.5°	753.3	752.1	753.3	757.0	762.1	768.4	783.6	792.4	802.5	793.7	765.9
55°	690.2	692.8	690.2	691.4	694.0	697.7	720.5	729.3	748.2	736.9	707.8
57.5°	627.1	623.3	627.1	629.6	630.9	634.7	653.6	670.0	681.4	682.6	647.3
60°	553.9	548.8	553.9	565.3	567.8	570.3	588.0	603.2	613.2	617.0	580.4
62.5°	489.5	480.7	489.5	497.2	502.2	508.5	521.1	543.9	552.7	553.9	502.2
65°	421.4	417.6	421.4	436.5	437.9	445.4	459.3	475.7	494.6	492.1	417.6
67.5°	359.7	359.7	359.7	369.7	377.2	381.0	398.7	406.3	430.2	432.8	348.3
70°	302.8	301.6	302.8	310.4	315.4	324.3	340.6	349.5	368.4	374.7	282.7
72.5°	248.6	247.3	248.6	254.9	260.0	267.5	281.3	291.5	307.9	315.4	219.6
75°	200.6	198.1	200.6	205.7	204.4	214.5	225.9	236.0	251.1	256.1	162.7
77.5°	153.9	153.9	153.9	159.0	159.0	169.0	174.1	186.7	195.6	203.1	119.9
80°	114.8	113.5	114.8	116.1	116.1	121.1	130.0	138.8	146.4	146.4	82.0
82.5°	80.8	78.2	80.8	80.8	80.8	83.3	88.3	90.8	95.9	99.7	51.8
85°	50.4	50.4	50.4	51.8	50.4	53.0	54.2	56.8	56.8	54.2	31.5
87.5°	32.9	31.5	32.9	31.5	31.5	30.3	30.3	30.3	29.0	27.8	17.7
90°	18.8	18.8	18.8	18.8	18.8	25.0	33.3	37.5	32.3	21.8	13.8
92.5°	75.3	60.4	75.3	90.2	94.0	133.2	185.5	211.6	185.8	134.2	95.4
95°	262.3	217.1	262.3	307.6	319.0	418.9	552.0	618.6	522.4	330.1	185.9
97.5°	628.6	542.4	628.6	714.7	736.2	799.3	883.5	925.6	765.2	444.6	204.2
100°	905.6	803.0	905.6	1008.2	1033.9	1029.3	1023.1	1020.0	842.1	486.4	219.6
102.5°	1178.2	1090.3	1178.2	1266.1	1288.1	1207.7	1100.4	1046.8	866.4	505.5	234.8
105°	1525.7	1478.4	1525.7	1572.9	1584.7	1404.4	1164.0	1043.8	869.1	519.7	257.7
107.5°	1753.3	1764.7	1753.3	1741.8	1739.0	1487.5	1152.2	984.5	830.5	522.4	291.3
110°	1840.1	1889.3	1840.1	1790.9	1778.6	1497.4	1122.5	935.0	796.2	518.4	310.0



TEST NUMBER: P935702

CATALOG NUMBER: SQ4-FA-125U-100D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1847.8	1923.5	1847.8	1772.3	1753.4	1465.6	1081.9	890.1	766.2	518.5	332.7
115°	1798.8	1903.7	1798.8	1694.0	1667.8	1390.6	1020.9	836.1	731.8	523.3	366.9
117.5°	1694.9	1811.2	1694.9	1578.6	1549.6	1299.4	965.8	799.0	710.4	533.1	400.0
120°	1611.2	1724.2	1611.2	1498.3	1470.0	1241.4	936.7	784.2	703.2	541.0	419.3
122.5°	1529.6	1641.1	1529.6	1418.3	1390.4	1184.6	910.1	772.9	699.3	552.4	442.1
125°	1413.3	1516.0	1413.3	1310.7	1285.0	1110.2	877.1	760.5	696.2	567.7	471.2
127.5°	1308.7	1395.4	1308.7	1222.2	1200.5	1050.4	850.1	750.1	694.4	582.9	499.4
130°	1247.1	1327.2	1247.1	1167.1	1147.1	1013.4	835.2	746.1	695.5	594.2	518.2
132.5°	1191.2	1262.8	1191.2	1119.5	1101.7	982.0	822.4	742.7	696.2	603.3	533.6
135°	1114.6	1176.3	1114.6	1052.9	1037.4	937.2	803.6	736.8	695.5	613.1	551.3
137.5°	1053.1	1103.6	1053.1	1002.5	989.9	905.1	792.2	735.7	699.8	627.9	574.1
140°	1010.9	1058.1	1010.9	963.7	951.8	878.7	781.1	732.3	700.6	637.1	589.4
142.5°	975.9	1016.6	975.9	935.2	925.1	860.8	775.2	732.3	703.1	644.6	600.8
145°	923.6	954.3	923.6	892.8	885.1	832.5	762.4	727.3	703.1	654.5	618.1
147.5°	883.3	908.8	883.3	857.9	851.5	810.1	754.9	727.3	707.8	669.0	639.8
150°	858.1	878.7	858.1	837.3	832.2	797.2	750.6	727.3	710.4	676.6	651.2
152.5°	836.3	852.0	836.3	820.7	816.8	787.0	747.2	727.3	712.0	681.6	658.7
155°	811.5	821.8	811.5	801.1	798.6	774.8	743.2	727.3	715.7	692.4	674.9
157.5°	791.8	799.0	791.8	784.5	782.7	764.3	739.6	727.3	719.3	703.3	691.2
160°	780.0	784.2	780.0	775.8	774.8	758.9	737.8	727.3	720.9	708.2	698.7
162.5°	772.4	776.3	772.4	768.4	767.4	754.1	736.2	727.3	722.7	713.5	706.6
165°	761.2	765.4	761.2	757.0	756.0	746.4	733.7	727.3	725.2	721.1	718.0
167.5°	753.3	755.0	753.3	751.6	751.1	744.8	736.5	732.3	730.6	727.0	724.4
170°	751.1	751.1	751.1	751.1	751.1	744.8	736.5	732.3	732.2	732.0	731.8
172.5°	745.2	743.7	745.2	746.7	747.1	742.1	735.5	732.3	732.3	732.3	732.3
175°	741.7	741.7	741.7	741.7	741.7	738.5	734.4	732.3	733.2	735.3	736.8
177.5°	738.5	736.8	738.5	740.2	740.7	738.2	734.9	733.2	734.0	735.6	736.8
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1352.7	1345.0	1345.0	1332.4	1327.4	1323.6	1317.3	1298.4	1293.4	1288.3	1295.8
5°	1364.0	1350.1	1340.1	1317.3	1298.4	1290.8	1266.8	1221.4	1191.1	1168.4	1155.8
7.5°	1366.5	1348.8	1329.9	1294.6	1249.1	1229.0	1155.8	1072.6	1049.8	1029.6	1017.0
10°	1364.0	1343.8	1317.3	1264.3	1157.1	1121.7	1048.5	994.3	980.4	976.6	980.4
12.5°	1355.1	1336.2	1299.7	1211.3	1061.2	1037.2	994.3	962.7	960.3	966.6	1000.6
15°	1340.1	1322.4	1279.4	1140.7	1008.2	990.5	960.3	948.9	962.7	1006.9	1109.1
17.5°	1324.9	1304.7	1251.7	1071.2	967.8	955.2	933.7	956.4	1034.6	1094.0	1128.0
20°	1304.7	1280.8	1220.1	1020.8	938.8	927.4	917.3	1019.6	1078.9	1100.3	1119.2
22.5°	1280.8	1255.4	1177.2	985.5	908.5	899.6	905.9	1054.9	1078.9	1094.0	1110.4
25°	1249.1	1227.7	1126.8	957.7	884.5	874.4	898.4	1051.1	1064.9	1068.7	1101.5
27.5°	1220.1	1192.4	1073.8	932.5	855.5	851.7	904.7	1034.6	1044.8	1048.5	1083.8
30°	1184.8	1143.1	1014.5	905.9	825.2	824.0	905.9	1014.5	1011.9	1022.0	1057.4
32.5°	1148.2	1070.0	947.6	873.2	796.2	794.9	897.1	984.2	981.6	995.6	1022.0
35°	1114.2	1013.3	856.7	835.3	759.6	760.8	875.6	948.9	950.1	962.7	979.2
37.5°	1078.9	964.0	757.0	793.7	724.3	724.3	846.6	916.0	913.6	917.3	940.0
40°	1037.2	887.0	668.8	739.4	691.4	687.7	811.4	880.7	871.9	870.7	902.2
42.5°	993.0	802.5	603.2	667.4	653.6	648.5	768.4	837.8	821.4	825.2	865.6
45°	945.1	779.8	552.7	564.0	614.4	610.7	721.7	788.6	777.3	787.4	829.0
47.5°	897.1	734.4	536.2	468.1	572.8	571.6	670.0	740.7	734.4	744.4	788.6
50°	831.5	683.9	535.0	401.3	526.2	531.2	608.1	694.0	694.0	702.8	749.5
52.5°	747.0	622.1	485.8	363.4	471.9	487.0	553.9	653.6	656.1	665.0	706.6
55°	670.0	557.7	450.5	334.3	407.6	440.4	500.9	612.0	617.0	625.8	663.7
57.5°	599.4	464.3	442.9	300.3	348.3	379.8	454.2	571.6	574.1	581.7	618.3
60°	523.6	335.6	406.3	263.7	296.5	320.5	411.3	523.6	532.5	537.5	569.1
62.5°	437.9	243.5	368.4	238.5	271.3	276.4	376.0	478.2	489.5	493.4	512.3
65°	311.6	204.4	313.0	217.1	244.8	246.0	338.2	431.6	441.6	447.9	461.8
67.5°	210.7	166.6	238.5	196.8	224.6	225.9	301.6	377.2	391.2	396.2	405.0
70°	146.4	111.1	176.7	175.4	201.9	204.4	262.4	328.0	340.6	344.5	349.5
72.5°	107.2	89.6	146.4	157.8	177.9	180.4	222.0	272.6	285.2	289.0	291.5
75°	82.0	94.6	118.6	137.5	151.4	152.7	181.7	222.0	230.9	233.4	234.6
77.5°	65.6	88.3	87.1	111.1	123.7	121.1	142.6	171.6	179.2	179.2	179.2
80°	49.2	69.4	65.6	79.5	90.8	88.3	102.2	122.4	124.9	127.4	126.2
82.5°	36.6	44.1	44.1	50.4	60.5	58.1	68.1	79.5	79.5	79.5	82.0
85°	22.7	25.2	20.2	26.5	34.1	32.9	37.8	42.9	44.1	44.1	41.6
87.5°	13.8	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	12.9	8.9	5.0	8.9	12.9	13.8	21.8	32.3	37.5	33.3	25.0
92.5°	87.0	53.4	19.8	53.4	87.0	95.4	134.2	185.8	211.6	185.5	133.2
95°	170.6	109.0	47.5	109.0	170.6	185.9	330.1	522.4	618.6	552.0	418.9
97.5°	190.6	136.3	82.0	136.3	190.6	204.2	444.6	765.2	925.6	883.5	799.3
100°	207.2	158.1	108.8	158.1	207.2	219.6	486.4	842.1	1020.0	1023.1	1029.3
102.5°	223.4	177.4	131.5	177.4	223.4	234.8	505.5	866.4	1046.8	1100.4	1207.7
105°	247.9	209.0	170.1	209.0	247.9	257.7	519.7	869.1	1043.8	1164.0	1404.4
107.5°	282.2	245.9	209.6	245.9	282.2	291.3	522.4	830.5	984.5	1152.2	1487.5
110°	301.8	269.1	236.4	269.1	301.8	310.0	518.4	796.2	935.0	1122.5	1497.4



TEST NUMBER: P935702

CATALOG NUMBER: SQ4-FA-125U-100D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	324.9	293.8	262.5	293.8	324.9	332.7	518.5	766.2	890.1	1081.9	1465.6
115°	359.7	330.9	302.1	330.9	359.7	366.9	523.3	731.8	836.1	1020.9	1390.6
117.5°	393.6	367.4	341.2	367.4	393.6	400.0	533.1	710.4	799.0	965.8	1299.4
120°	413.2	388.6	364.0	388.6	413.2	419.3	541.0	703.2	784.2	936.7	1241.4
122.5°	435.9	411.0	386.2	411.0	435.9	442.1	552.4	699.3	772.9	910.1	1184.6
125°	465.6	442.9	420.3	442.9	465.6	471.2	567.7	696.2	760.5	877.1	1110.2
127.5°	493.6	470.8	448.0	470.8	493.6	499.4	582.9	694.4	750.1	850.1	1050.4
130°	512.1	487.4	462.8	487.4	512.1	518.2	594.2	695.5	746.1	835.2	1013.4
132.5°	527.4	502.8	478.2	502.8	527.4	533.6	603.3	696.2	742.7	822.4	982.0
135°	545.7	523.3	500.9	523.3	545.7	551.3	613.1	695.5	736.8	803.6	937.2
137.5°	568.5	546.3	524.1	546.3	568.5	574.1	627.9	699.8	735.7	792.2	905.1
140°	584.3	563.8	543.4	563.8	584.3	589.4	637.1	700.6	732.3	781.1	878.7
142.5°	596.0	577.1	558.2	577.1	596.0	600.8	644.6	703.1	732.3	775.2	860.8
145°	614.0	597.4	581.0	597.4	614.0	618.1	654.5	703.1	727.3	762.4	832.5
147.5°	635.8	619.8	603.8	619.8	635.8	639.8	669.0	707.8	727.3	754.9	810.1
150°	647.6	633.1	618.6	633.1	647.6	651.2	676.6	710.4	727.3	750.6	797.2
152.5°	655.9	644.9	633.9	644.9	655.9	658.7	681.6	712.0	727.3	747.2	787.0
155°	672.9	664.8	656.7	664.8	672.9	674.9	692.4	715.7	727.3	743.2	774.8
157.5°	689.2	681.4	673.5	681.4	689.2	691.2	703.3	719.3	727.3	739.6	764.3
160°	697.2	690.9	684.8	690.9	697.2	698.7	708.2	720.9	727.3	737.8	758.9
162.5°	705.5	700.8	696.2	700.8	705.5	706.6	713.5	722.7	727.3	736.2	754.1
165°	716.9	712.7	708.5	712.7	716.9	718.0	721.1	725.2	727.3	733.7	746.4
167.5°	723.9	721.9	720.0	721.9	723.9	724.4	727.0	730.6	732.3	736.5	744.8
170°	731.3	729.3	727.3	729.3	731.3	731.8	732.0	732.2	732.3	736.5	744.8
172.5°	732.2	731.7	731.3	731.7	732.2	732.3	732.3	732.3	732.3	735.5	742.1
175°	736.8	736.8	736.8	736.8	736.8	736.8	735.3	733.2	732.3	734.4	738.5
177.5°	736.8	736.8	736.8	736.8	736.8	736.8	735.6	734.0	733.2	734.9	738.2
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



TEST NUMBER: P935702
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1287.1	1283.2	1288.3	1274.4	1288.3	1283.2	1287.1	1295.8	1288.3	1293.4	1298.4
5°	1129.3	1123.0	1102.8	1086.4	1102.8	1123.0	1129.3	1155.8	1168.4	1191.1	1221.4
7.5°	1009.4	1004.4	999.3	989.2	999.3	1004.4	1009.4	1017.0	1029.6	1049.8	1072.6
10°	982.9	984.2	991.8	990.5	991.8	984.2	982.9	980.4	976.6	980.4	994.3
12.5°	1051.1	1062.4	1104.1	1101.5	1104.1	1062.4	1051.1	1000.6	966.6	960.3	962.7
15°	1129.3	1133.1	1141.9	1143.1	1141.9	1133.1	1129.3	1109.1	1006.9	962.7	948.9
17.5°	1136.8	1138.2	1144.5	1144.5	1144.5	1138.2	1136.8	1128.0	1094.0	1034.6	956.4
20°	1130.5	1133.1	1145.7	1148.2	1145.7	1133.1	1130.5	1119.2	1100.3	1078.9	1019.6
22.5°	1128.0	1133.1	1143.1	1141.9	1143.1	1133.1	1128.0	1110.4	1094.0	1078.9	1054.9
25°	1115.4	1115.4	1116.7	1117.9	1116.7	1115.4	1115.4	1101.5	1068.7	1064.9	1051.1
27.5°	1088.9	1091.5	1099.0	1097.8	1099.0	1091.5	1088.9	1083.8	1048.5	1044.8	1034.6
30°	1064.9	1062.4	1056.1	1051.1	1056.1	1062.4	1064.9	1057.4	1022.0	1011.9	1014.5
32.5°	1024.5	1018.2	1011.9	1008.2	1011.9	1018.2	1024.5	1022.0	995.6	981.6	984.2
35°	976.6	977.9	976.6	972.9	976.6	977.9	976.6	979.2	962.7	950.1	948.9
37.5°	942.6	945.1	943.8	938.8	943.8	945.1	942.6	940.0	917.3	913.6	916.0
40°	907.2	908.5	907.2	903.4	907.2	908.5	907.2	902.2	870.7	871.9	880.7
42.5°	873.2	871.9	868.1	865.6	868.1	871.9	873.2	865.6	825.2	821.4	837.8
45°	834.0	835.3	827.7	824.0	827.7	835.3	834.0	829.0	787.4	777.3	788.6
47.5°	794.9	794.9	788.6	784.8	788.6	794.9	794.9	788.6	744.4	734.4	740.7
50°	753.3	752.1	743.2	741.9	743.2	752.1	753.3	749.5	702.8	694.0	694.0
52.5°	705.4	705.4	706.6	709.1	706.6	705.4	705.4	706.6	665.0	656.1	653.6
55°	663.7	665.0	673.8	676.3	673.8	665.0	663.7	663.7	625.8	617.0	612.0
57.5°	620.8	620.8	627.1	627.1	627.1	620.8	620.8	618.3	581.7	574.1	571.6
60°	571.6	574.1	579.1	577.9	579.1	574.1	571.6	569.1	537.5	532.5	523.6
62.5°	519.8	522.4	523.6	521.1	523.6	522.4	519.8	512.3	493.4	489.5	478.2
65°	465.6	468.1	469.4	466.9	469.4	468.1	465.6	461.8	447.9	441.6	431.6
67.5°	410.1	408.8	407.6	412.6	407.6	408.8	410.1	405.0	396.2	391.2	377.2
70°	353.3	353.3	352.0	354.6	352.0	353.3	353.3	349.5	344.5	340.6	328.0
72.5°	292.7	291.5	296.5	292.7	296.5	291.5	292.7	291.5	289.0	285.2	272.6
75°	233.4	236.0	233.4	237.2	233.4	236.0	233.4	234.6	233.4	230.9	222.0
77.5°	177.9	180.4	177.9	177.9	177.9	180.4	177.9	179.2	179.2	179.2	171.6
80°	126.2	124.9	124.9	123.7	124.9	124.9	126.2	126.2	127.4	124.9	122.4
82.5°	80.8	79.5	79.5	82.0	79.5	79.5	80.8	82.0	79.5	79.5	79.5
85°	44.1	45.5	42.9	42.9	42.9	45.5	44.1	41.6	44.1	44.1	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	25.0	33.3	37.5	32.3
92.5°	94.0	90.2	75.3	60.4	75.3	90.2	94.0	133.2	185.5	211.6	185.8
95°	319.0	307.6	262.3	217.1	262.3	307.6	319.0	418.9	552.0	618.6	522.4
97.5°	736.2	714.7	628.6	542.4	628.6	714.7	736.2	799.3	883.5	925.6	765.2
100°	1033.9	1008.2	905.6	803.0	905.6	1008.2	1033.9	1029.3	1023.1	1020.0	842.1
102.5°	1288.1	1266.1	1178.2	1090.3	1178.2	1266.1	1288.1	1207.7	1100.4	1046.8	866.4
105°	1584.7	1572.9	1525.7	1478.4	1525.7	1572.9	1584.7	1404.4	1164.0	1043.8	869.1
107.5°	1739.0	1741.8	1753.3	1764.7	1753.3	1741.8	1739.0	1487.5	1152.2	984.5	830.5
110°	1778.6	1790.9	1840.1	1889.3	1840.1	1790.9	1778.6	1497.4	1122.5	935.0	796.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1753.4	1772.3	1847.8	1923.5	1847.8	1772.3	1753.4	1465.6	1081.9	890.1	766.2
115°	1667.8	1694.0	1798.8	1903.7	1798.8	1694.0	1667.8	1390.6	1020.9	836.1	731.8
117.5°	1549.6	1578.6	1694.9	1811.2	1694.9	1578.6	1549.6	1299.4	965.8	799.0	710.4
120°	1470.0	1498.3	1611.2	1724.2	1611.2	1498.3	1470.0	1241.4	936.7	784.2	703.2
122.5°	1390.4	1418.3	1529.6	1641.1	1529.6	1418.3	1390.4	1184.6	910.1	772.9	699.3
125°	1285.0	1310.7	1413.3	1516.0	1413.3	1310.7	1285.0	1110.2	877.1	760.5	696.2
127.5°	1200.5	1222.2	1308.7	1395.4	1308.7	1222.2	1200.5	1050.4	850.1	750.1	694.4
130°	1147.1	1167.1	1247.1	1327.2	1247.1	1167.1	1147.1	1013.4	835.2	746.1	695.5
132.5°	1101.7	1119.5	1191.2	1262.8	1191.2	1119.5	1101.7	982.0	822.4	742.7	696.2
135°	1037.4	1052.9	1114.6	1176.3	1114.6	1052.9	1037.4	937.2	803.6	736.8	695.5
137.5°	989.9	1002.5	1053.1	1103.6	1053.1	1002.5	989.9	905.1	792.2	735.7	699.8
140°	951.8	963.7	1010.9	1058.1	1010.9	963.7	951.8	878.7	781.1	732.3	700.6
142.5°	925.1	935.2	975.9	1016.6	975.9	935.2	925.1	860.8	775.2	732.3	703.1
145°	885.1	892.8	923.6	954.3	923.6	892.8	885.1	832.5	762.4	727.3	703.1
147.5°	851.5	857.9	883.3	908.8	883.3	857.9	851.5	810.1	754.9	727.3	707.8
150°	832.2	837.3	858.1	878.7	858.1	837.3	832.2	797.2	750.6	727.3	710.4
152.5°	816.8	820.7	836.3	852.0	836.3	820.7	816.8	787.0	747.2	727.3	712.0
155°	798.6	801.1	811.5	821.8	811.5	801.1	798.6	774.8	743.2	727.3	715.7
157.5°	782.7	784.5	791.8	799.0	791.8	784.5	782.7	764.3	739.6	727.3	719.3
160°	774.8	775.8	780.0	784.2	780.0	775.8	774.8	758.9	737.8	727.3	720.9
162.5°	767.4	768.4	772.4	776.3	772.4	768.4	767.4	754.1	736.2	727.3	722.7
165°	756.0	757.0	761.2	765.4	761.2	757.0	756.0	746.4	733.7	727.3	725.2
167.5°	751.1	751.6	753.3	755.0	753.3	751.6	751.1	744.8	736.5	732.3	730.6
170°	751.1	751.1	751.1	751.1	751.1	751.1	751.1	744.8	736.5	732.3	732.2
172.5°	747.1	746.7	745.2	743.7	745.2	746.7	747.1	742.1	735.5	732.3	732.3
175°	741.7	741.7	741.7	741.7	741.7	741.7	741.7	738.5	734.4	732.3	733.2
177.5°	740.7	740.2	738.5	736.8	738.5	740.2	740.7	738.2	734.9	733.2	734.0
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1317.3	1323.6	1327.4	1332.4	1345.0
5°	1266.8	1290.8	1298.4	1317.3	1340.1
7.5°	1155.8	1229.0	1249.1	1294.6	1329.9
10°	1048.5	1121.7	1157.1	1264.3	1317.3
12.5°	994.3	1037.2	1061.2	1211.3	1299.7
15°	960.3	990.5	1008.2	1140.7	1279.4
17.5°	933.7	955.2	967.8	1071.2	1251.7
20°	917.3	927.4	938.8	1020.8	1220.1
22.5°	905.9	899.6	908.5	985.5	1177.2
25°	898.4	874.4	884.5	957.7	1126.8
27.5°	904.7	851.7	855.5	932.5	1073.8
30°	905.9	824.0	825.2	905.9	1014.5
32.5°	897.1	794.9	796.2	873.2	947.6
35°	875.6	760.8	759.6	835.3	856.7
37.5°	846.6	724.3	724.3	793.7	757.0
40°	811.4	687.7	691.4	739.4	668.8
42.5°	768.4	648.5	653.6	667.4	603.2
45°	721.7	610.7	614.4	564.0	552.7
47.5°	670.0	571.6	572.8	468.1	536.2
50°	608.1	531.2	526.2	401.3	535.0
52.5°	553.9	487.0	471.9	363.4	485.8
55°	500.9	440.4	407.6	334.3	450.5
57.5°	454.2	379.8	348.3	300.3	442.9
60°	411.3	320.5	296.5	263.7	406.3
62.5°	376.0	276.4	271.3	238.5	368.4
65°	338.2	246.0	244.8	217.1	313.0
67.5°	301.6	225.9	224.6	196.8	238.5
70°	262.4	204.4	201.9	175.4	176.7
72.5°	222.0	180.4	177.9	157.8	146.4
75°	181.7	152.7	151.4	137.5	118.6
77.5°	142.6	121.1	123.7	111.1	87.1
80°	102.2	88.3	90.8	79.5	65.6
82.5°	68.1	58.1	60.5	50.4	44.1
85°	37.8	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	21.8	13.8	12.9	8.9	5.0
92.5°	134.2	95.4	87.0	53.4	19.8
95°	330.1	185.9	170.6	109.0	47.5
97.5°	444.6	204.2	190.6	136.3	82.0
100°	486.4	219.6	207.2	158.1	108.8
102.5°	505.5	234.8	223.4	177.4	131.5
105°	519.7	257.7	247.9	209.0	170.1
107.5°	522.4	291.3	282.2	245.9	209.6
110°	518.4	310.0	301.8	269.1	236.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	518.5	332.7	324.9	293.8	262.5
115°	523.3	366.9	359.7	330.9	302.1
117.5°	533.1	400.0	393.6	367.4	341.2
120°	541.0	419.3	413.2	388.6	364.0
122.5°	552.4	442.1	435.9	411.0	386.2
125°	567.7	471.2	465.6	442.9	420.3
127.5°	582.9	499.4	493.6	470.8	448.0
130°	594.2	518.2	512.1	487.4	462.8
132.5°	603.3	533.6	527.4	502.8	478.2
135°	613.1	551.3	545.7	523.3	500.9
137.5°	627.9	574.1	568.5	546.3	524.1
140°	637.1	589.4	584.3	563.8	543.4
142.5°	644.6	600.8	596.0	577.1	558.2
145°	654.5	618.1	614.0	597.4	581.0
147.5°	669.0	639.8	635.8	619.8	603.8
150°	676.6	651.2	647.6	633.1	618.6
152.5°	681.6	658.7	655.9	644.9	633.9
155°	692.4	674.9	672.9	664.8	656.7
157.5°	703.3	691.2	689.2	681.4	673.5
160°	708.2	698.7	697.2	690.9	684.8
162.5°	713.5	706.6	705.5	700.8	696.2
165°	721.1	718.0	716.9	712.7	708.5
167.5°	727.0	724.4	723.9	721.9	720.0
170°	732.0	731.8	731.3	729.3	727.3
172.5°	732.3	732.3	732.2	731.7	731.3
175°	735.3	736.8	736.8	736.8	736.8
177.5°	735.6	736.8	736.8	736.8	736.8
180°	736.8	736.8	736.8	736.8	736.8



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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	12.75	13.54	13.77	14.57	15.95	15.55	16.34	16.57	17.37	18.75
	3H	13.22	13.93	14.25	14.97	16.37	16.88	17.59	17.91	18.63	20.03
	4H	13.41	14.08	14.45	15.12	16.53	17.31	17.98	18.36	19.03	20.43
	6H	13.52	14.14	14.58	15.19	16.61	17.58	18.20	18.64	19.25	20.67
	8H	13.52	14.11	14.58	15.18	16.59	17.65	18.24	18.71	19.31	20.72
	12H	13.49	14.05	14.56	15.11	16.55	17.68	18.25	18.75	19.30	20.74
4H	2H	13.77	14.44	14.82	15.48	16.89	15.95	16.62	17.00	17.66	19.07
	3H	14.79	15.35	15.84	16.42	17.84	17.44	18.00	18.50	19.07	20.49
	4H	15.06	15.57	16.12	16.63	18.08	17.96	18.47	19.02	19.53	20.98
	6H	15.18	15.62	16.26	16.71	18.14	18.31	18.75	19.39	19.84	21.27
	8H	15.18	15.60	16.26	16.67	18.13	18.41	18.82	19.49	19.90	21.35
	12H	15.15	15.52	16.24	16.61	18.07	18.46	18.83	19.55	19.92	21.38
8H	4H	15.50	15.91	16.58	16.99	18.44	18.08	18.49	19.15	19.57	21.02
	6H	15.76	16.10	16.86	17.22	18.67	18.50	18.84	19.60	19.96	21.41
	8H	15.80	16.10	16.91	17.20	18.67	18.65	18.95	19.75	20.05	21.52
	12H	15.78	16.05	16.89	17.14	18.65	18.74	19.00	19.85	20.10	21.61
12H	4H	15.50	15.88	16.60	16.97	18.43	18.04	18.41	19.13	19.50	20.96
	6H	15.82	16.12	16.92	17.22	18.69	18.50	18.80	19.60	19.90	21.37
	8H	15.88	16.15	16.99	17.24	18.75	18.65	18.91	19.76	20.01	21.52