

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: P936085

Luminaire Tested: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

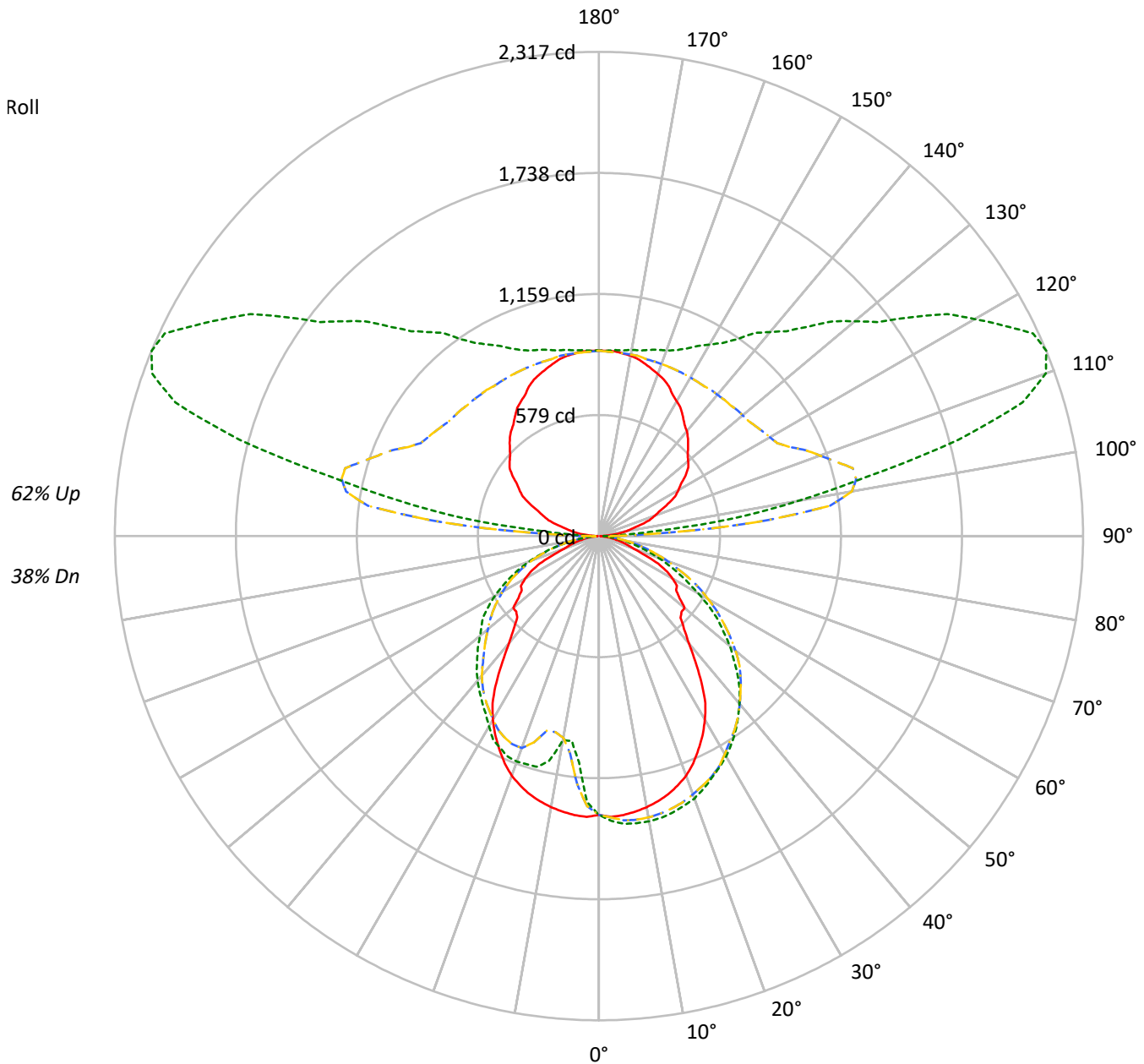
Test Method: LM-79-2019  
Report Number: P936085  
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9214.8 lumens  
Efficiency: N/A  
Efficacy: 127.3 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: Semi-Indirect  
  
Input Watts (W): 72.4  
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	
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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

**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	1.3
10°-20°	341.8	3.7
20°-30°	528.4	5.7
30°-40°	630.8	6.8
40°-50°	634.5	6.9
50°-60°	552.1	6.0
60°-70°	391.4	4.2
70°-80°	207.1	2.2
80°-90°	55.0	0.6
90°-100°	432.6	4.7
100°-110°	1137.4	12.3
110°-120°	1179.3	12.8
120°-130°	946.0	10.3
130°-140°	742.2	8.1
140°-150°	569.7	6.2
150°-160°	410.3	4.5
160°-170°	251.0	2.7
170°-180°	84.8	0.9
0°-30°	990.6	10.8
0°-40°	1621.4	17.6
0°-60°	2808.0	30.5
0°-90°	3461.4	37.6
90°-120°	2749.3	29.8
90°-150°	5007.2	54.3
90°-180°	5753.0	62.4
0°-180°	9214.8	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°	6	23	6	23	6	6
95°	57	262	57	262	57	63
105°	205	1781	205	1781	205	217
115°	364	2293	364	2293	364	359
125°	506	1826	506	1826	506	449
135°	603	1417	603	1417	603	467
145°	700	1150	700	1150	700	438
155°	791	990	791	990	791	363
165°	854	922	854	922	854	241
175°	888	894	888	894	888	84
180°	888	888	888	888	888	



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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°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2	22.6	22.6
92.5°	23.8	64.3	104.9	115.0	161.6	223.8	254.9	223.4	160.4	113.2	108.7
95°	57.2	131.3	205.4	223.9	397.7	629.3	745.2	665.0	504.5	384.2	370.5
97.5°	98.8	164.3	229.7	246.0	535.7	922.0	1115.1	1064.3	962.9	886.9	860.9
100°	131.0	190.3	249.6	264.4	585.9	1014.5	1228.8	1232.5	1240.0	1245.5	1214.6
102.5°	158.4	213.8	269.1	283.0	609.0	1043.6	1261.0	1325.5	1454.8	1551.7	1525.2
105°	204.9	251.8	298.6	310.4	626.0	1046.9	1257.4	1402.1	1691.8	1909.0	1894.8
107.5°	252.6	296.2	340.0	350.9	629.2	1000.4	1185.9	1387.9	1791.9	2094.9	2098.3
110°	284.7	324.1	363.7	373.5	624.5	959.0	1126.3	1352.2	1803.8	2142.5	2157.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.3	353.9	391.6	400.9	624.7	923.0	1072.2	1303.3	1765.5	2112.2	2134.9
115°	364.0	398.6	433.3	442.0	630.4	881.7	1007.2	1229.8	1675.2	2009.1	2040.7
117.5°	411.0	442.5	474.1	481.9	642.1	855.8	962.5	1163.5	1565.3	1866.7	1901.8
120°	438.3	468.0	497.7	505.1	651.6	847.0	944.7	1128.2	1495.4	1770.9	1804.9
122.5°	465.2	495.1	525.1	532.5	665.3	842.5	931.0	1096.3	1427.0	1675.0	1708.5
125°	506.3	533.6	560.9	567.7	683.8	838.7	916.1	1056.5	1337.4	1548.1	1579.0
127.5°	539.7	567.2	594.7	601.6	702.2	836.5	903.6	1024.2	1265.4	1446.3	1472.3
130°	557.5	587.1	616.7	624.2	715.8	837.8	898.8	1006.2	1220.9	1381.9	1406.0
132.5°	576.0	605.7	635.3	642.7	726.7	838.7	894.6	990.7	1183.0	1327.1	1348.7
135°	603.4	630.4	657.3	664.1	738.6	837.8	887.5	968.0	1128.9	1249.6	1268.2
137.5°	631.4	658.1	684.8	691.5	756.5	843.1	886.3	954.3	1090.4	1192.5	1207.7
140°	654.7	679.3	703.9	710.0	767.4	843.9	882.1	940.9	1058.4	1146.6	1160.8
142.5°	672.5	695.2	718.0	723.7	776.5	846.9	882.1	933.8	1037.0	1114.5	1126.7
145°	699.9	719.8	739.6	744.5	788.4	847.0	876.2	918.4	1002.8	1066.2	1075.4
147.5°	727.2	746.6	765.9	770.8	805.9	852.8	876.2	909.4	975.8	1025.7	1033.3
150°	745.2	762.7	780.0	784.4	815.0	855.8	876.2	904.3	960.3	1002.5	1008.7
152.5°	763.6	776.9	790.1	793.4	821.0	857.8	876.2	900.2	948.1	984.0	988.7
155°	791.0	800.9	810.6	813.1	834.1	862.2	876.2	895.3	933.4	962.0	965.1
157.5°	811.3	820.8	830.3	832.7	847.2	866.6	876.2	891.0	920.6	942.9	945.1
160°	824.9	832.4	839.8	841.6	853.2	868.6	876.2	888.9	914.3	933.3	934.6
162.5°	838.7	844.2	849.8	851.2	859.5	870.7	876.2	886.9	908.4	924.4	925.6
165°	853.6	858.5	863.6	864.8	868.7	873.7	876.2	883.9	899.2	910.7	911.9
167.5°	867.2	869.6	872.0	872.6	875.7	880.0	882.1	887.2	897.2	904.8	905.3
170°	876.2	878.6	881.0	881.6	881.8	882.0	882.1	887.2	897.2	904.8	904.8
172.5°	881.0	881.5	882.0	882.1	882.1	882.1	882.1	886.1	894.1	900.0	899.5
175°	887.5	887.5	887.5	887.5	885.7	883.3	882.1	884.6	889.7	893.5	893.5
177.5°	887.5	887.5	887.5	887.5	886.1	884.3	883.4	885.4	889.3	892.3	891.7
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



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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°	22.6	22.6	22.6	22.6	22.6	30.2	40.2	45.3	39.0	26.3	16.7
92.5°	90.6	72.7	90.6	108.7	113.2	160.4	223.4	254.9	223.8	161.6	115.0
95°	316.0	261.5	316.0	370.5	384.2	504.5	665.0	745.2	629.3	397.7	223.9
97.5°	757.2	653.4	757.2	860.9	886.9	962.9	1064.3	1115.1	922.0	535.7	246.0
100°	1091.0	967.3	1091.0	1214.6	1245.5	1240.0	1232.5	1228.8	1014.5	585.9	264.4
102.5°	1419.3	1313.4	1419.3	1525.2	1551.7	1454.8	1325.5	1261.0	1043.6	609.0	283.0
105°	1837.9	1781.0	1837.9	1894.8	1909.0	1691.8	1402.1	1257.4	1046.9	626.0	310.4
107.5°	2112.1	2125.8	2112.1	2098.3	2094.9	1791.9	1387.9	1185.9	1000.4	629.2	350.9
110°	2216.7	2276.0	2216.7	2157.3	2142.5	1803.8	1352.2	1126.3	959.0	624.5	373.5





TEST NUMBER: P936085

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2226.0	2317.0	2226.0	2134.9	2112.2	1765.5	1303.3	1072.2	923.0	624.7	400.9
115°	2167.0	2293.2	2167.0	2040.7	2009.1	1675.2	1229.8	1007.2	881.7	630.4	442.0
117.5°	2041.8	2181.8	2041.8	1901.8	1866.7	1565.3	1163.5	962.5	855.8	642.1	481.9
120°	1940.9	2077.0	1940.9	1804.9	1770.9	1495.4	1128.2	944.7	847.0	651.6	505.1
122.5°	1842.8	1976.9	1842.8	1708.5	1675.0	1427.0	1096.3	931.0	842.5	665.3	532.5
125°	1702.6	1826.2	1702.6	1579.0	1548.1	1337.4	1056.5	916.1	838.7	683.8	567.7
127.5°	1576.6	1680.9	1576.6	1472.3	1446.3	1265.4	1024.2	903.6	836.5	702.2	601.6
130°	1502.3	1598.7	1502.3	1406.0	1381.9	1220.9	1006.2	898.8	837.8	715.8	624.2
132.5°	1434.9	1521.2	1434.9	1348.7	1327.1	1183.0	990.7	894.6	838.7	726.7	642.7
135°	1342.6	1417.0	1342.6	1268.2	1249.6	1128.9	968.0	887.5	837.8	738.6	664.1
137.5°	1268.6	1329.5	1268.6	1207.7	1192.5	1090.4	954.3	886.3	843.1	756.5	691.5
140°	1217.7	1274.6	1217.7	1160.8	1146.6	1058.4	940.9	882.1	843.9	767.4	710.0
142.5°	1175.7	1224.6	1175.7	1126.7	1114.5	1037.0	933.8	882.1	846.9	776.5	723.7
145°	1112.6	1149.6	1112.6	1075.4	1066.2	1002.8	918.4	876.2	847.0	788.4	744.5
147.5°	1064.1	1094.8	1064.1	1033.3	1025.7	975.8	909.4	876.2	852.8	805.9	770.8
150°	1033.6	1058.4	1033.6	1008.7	1002.5	960.3	904.3	876.2	855.8	815.0	784.4
152.5°	1007.5	1026.2	1007.5	988.7	984.0	948.1	900.2	876.2	857.8	821.0	793.4
155°	977.5	990.0	977.5	965.1	962.0	933.4	895.3	876.2	862.2	834.1	813.1
157.5°	953.8	962.5	953.8	945.1	942.9	920.6	891.0	876.2	866.6	847.2	832.7
160°	939.6	944.7	939.6	934.6	933.3	914.3	888.9	876.2	868.6	853.2	841.6
162.5°	930.4	935.1	930.4	925.6	924.4	908.4	886.9	876.2	870.7	859.5	851.2
165°	917.0	922.1	917.0	911.9	910.7	899.2	883.9	876.2	873.7	868.7	864.8
167.5°	907.4	909.5	907.4	905.3	904.8	897.2	887.2	882.1	880.0	875.7	872.6
170°	904.8	904.8	904.8	904.8	904.8	897.2	887.2	882.1	882.0	881.8	881.6
172.5°	897.7	895.9	897.7	899.5	900.0	894.1	886.1	882.1	882.1	882.1	882.1
175°	893.5	893.5	893.5	893.5	893.5	889.7	884.6	882.1	883.3	885.7	887.5
177.5°	889.6	887.5	889.6	891.7	892.3	889.3	885.4	883.4	884.3	886.1	887.5
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P936085

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-4000K

**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°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2
92.5°	104.9	64.3	23.8	64.3	104.9	115.0	161.6	223.8	254.9	223.4	160.4
95°	205.4	131.3	57.2	131.3	205.4	223.9	397.7	629.3	745.2	665.0	504.5
97.5°	229.7	164.3	98.8	164.3	229.7	246.0	535.7	922.0	1115.1	1064.3	962.9
100°	249.6	190.3	131.0	190.3	249.6	264.4	585.9	1014.5	1228.8	1232.5	1240.0
102.5°	269.1	213.8	158.4	213.8	269.1	283.0	609.0	1043.6	1261.0	1325.5	1454.8
105°	298.6	251.8	204.9	251.8	298.6	310.4	626.0	1046.9	1257.4	1402.1	1691.8
107.5°	340.0	296.2	252.6	296.2	340.0	350.9	629.2	1000.4	1185.9	1387.9	1791.9
110°	363.7	324.1	284.7	324.1	363.7	373.5	624.5	959.0	1126.3	1352.2	1803.8



TEST NUMBER: P936085

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	391.6	353.9	316.3	353.9	391.6	400.9	624.7	923.0	1072.2	1303.3	1765.5
115°	433.3	398.6	364.0	398.6	433.3	442.0	630.4	881.7	1007.2	1229.8	1675.2
117.5°	474.1	442.5	411.0	442.5	474.1	481.9	642.1	855.8	962.5	1163.5	1565.3
120°	497.7	468.0	438.3	468.0	497.7	505.1	651.6	847.0	944.7	1128.2	1495.4
122.5°	525.1	495.1	465.2	495.1	525.1	532.5	665.3	842.5	931.0	1096.3	1427.0
125°	560.9	533.6	506.3	533.6	560.9	567.7	683.8	838.7	916.1	1056.5	1337.4
127.5°	594.7	567.2	539.7	567.2	594.7	601.6	702.2	836.5	903.6	1024.2	1265.4
130°	616.7	587.1	557.5	587.1	616.7	624.2	715.8	837.8	898.8	1006.2	1220.9
132.5°	635.3	605.7	576.0	605.7	635.3	642.7	726.7	838.7	894.6	990.7	1183.0
135°	657.3	630.4	603.4	630.4	657.3	664.1	738.6	837.8	887.5	968.0	1128.9
137.5°	684.8	658.1	631.4	658.1	684.8	691.5	756.5	843.1	886.3	954.3	1090.4
140°	703.9	679.3	654.7	679.3	703.9	710.0	767.4	843.9	882.1	940.9	1058.4
142.5°	718.0	695.2	672.5	695.2	718.0	723.7	776.5	846.9	882.1	933.8	1037.0
145°	739.6	719.8	699.9	719.8	739.6	744.5	788.4	847.0	876.2	918.4	1002.8
147.5°	765.9	746.6	727.2	746.6	765.9	770.8	805.9	852.8	876.2	909.4	975.8
150°	780.0	762.7	745.2	762.7	780.0	784.4	815.0	855.8	876.2	904.3	960.3
152.5°	790.1	776.9	763.6	776.9	790.1	793.4	821.0	857.8	876.2	900.2	948.1
155°	810.6	800.9	791.0	800.9	810.6	813.1	834.1	862.2	876.2	895.3	933.4
157.5°	830.3	820.8	811.3	820.8	830.3	832.7	847.2	866.6	876.2	891.0	920.6
160°	839.8	832.4	824.9	832.4	839.8	841.6	853.2	868.6	876.2	888.9	914.3
162.5°	849.8	844.2	838.7	844.2	849.8	851.2	859.5	870.7	876.2	886.9	908.4
165°	863.6	858.5	853.6	858.5	863.6	864.8	868.7	873.7	876.2	883.9	899.2
167.5°	872.0	869.6	867.2	869.6	872.0	872.6	875.7	880.0	882.1	887.2	897.2
170°	881.0	878.6	876.2	878.6	881.0	881.6	881.8	882.0	882.1	887.2	897.2
172.5°	882.0	881.5	881.0	881.5	882.0	882.1	882.1	882.1	882.1	886.1	894.1
175°	887.5	887.5	887.5	887.5	887.5	887.5	885.7	883.3	882.1	884.6	889.7
177.5°	887.5	887.5	887.5	887.5	887.5	887.5	886.1	884.3	883.4	885.4	889.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P936085  
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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°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	30.2	40.2	45.3	39.0
92.5°	113.2	108.7	90.6	72.7	90.6	108.7	113.2	160.4	223.4	254.9	223.8
95°	384.2	370.5	316.0	261.5	316.0	370.5	384.2	504.5	665.0	745.2	629.3
97.5°	886.9	860.9	757.2	653.4	757.2	860.9	886.9	962.9	1064.3	1115.1	922.0
100°	1245.5	1214.6	1091.0	967.3	1091.0	1214.6	1245.5	1240.0	1232.5	1228.8	1014.5
102.5°	1551.7	1525.2	1419.3	1313.4	1419.3	1525.2	1551.7	1454.8	1325.5	1261.0	1043.6
105°	1909.0	1894.8	1837.9	1781.0	1837.9	1894.8	1909.0	1691.8	1402.1	1257.4	1046.9
107.5°	2094.9	2098.3	2112.1	2125.8	2112.1	2098.3	2094.9	1791.9	1387.9	1185.9	1000.4
110°	2142.5	2157.3	2216.7	2276.0	2216.7	2157.3	2142.5	1803.8	1352.2	1126.3	959.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2112.2	2134.9	2226.0	2317.0	2226.0	2134.9	2112.2	1765.5	1303.3	1072.2	923.0
115°	2009.1	2040.7	2167.0	2293.2	2167.0	2040.7	2009.1	1675.2	1229.8	1007.2	881.7
117.5°	1866.7	1901.8	2041.8	2181.8	2041.8	1901.8	1866.7	1565.3	1163.5	962.5	855.8
120°	1770.9	1804.9	1940.9	2077.0	1940.9	1804.9	1770.9	1495.4	1128.2	944.7	847.0
122.5°	1675.0	1708.5	1842.8	1976.9	1842.8	1708.5	1675.0	1427.0	1096.3	931.0	842.5
125°	1548.1	1579.0	1702.6	1826.2	1702.6	1579.0	1548.1	1337.4	1056.5	916.1	838.7
127.5°	1446.3	1472.3	1576.6	1680.9	1576.6	1472.3	1446.3	1265.4	1024.2	903.6	836.5
130°	1381.9	1406.0	1502.3	1598.7	1502.3	1406.0	1381.9	1220.9	1006.2	898.8	837.8
132.5°	1327.1	1348.7	1434.9	1521.2	1434.9	1348.7	1327.1	1183.0	990.7	894.6	838.7
135°	1249.6	1268.2	1342.6	1417.0	1342.6	1268.2	1249.6	1128.9	968.0	887.5	837.8
137.5°	1192.5	1207.7	1268.6	1329.5	1268.6	1207.7	1192.5	1090.4	954.3	886.3	843.1
140°	1146.6	1160.8	1217.7	1274.6	1217.7	1160.8	1146.6	1058.4	940.9	882.1	843.9
142.5°	1114.5	1126.7	1175.7	1224.6	1175.7	1126.7	1114.5	1037.0	933.8	882.1	846.9
145°	1066.2	1075.4	1112.6	1149.6	1112.6	1075.4	1066.2	1002.8	918.4	876.2	847.0
147.5°	1025.7	1033.3	1064.1	1094.8	1064.1	1033.3	1025.7	975.8	909.4	876.2	852.8
150°	1002.5	1008.7	1033.6	1058.4	1033.6	1008.7	1002.5	960.3	904.3	876.2	855.8
152.5°	984.0	988.7	1007.5	1026.2	1007.5	988.7	984.0	948.1	900.2	876.2	857.8
155°	962.0	965.1	977.5	990.0	977.5	965.1	962.0	933.4	895.3	876.2	862.2
157.5°	942.9	945.1	953.8	962.5	953.8	945.1	942.9	920.6	891.0	876.2	866.6
160°	933.3	934.6	939.6	944.7	939.6	934.6	933.3	914.3	888.9	876.2	868.6
162.5°	924.4	925.6	930.4	935.1	930.4	925.6	924.4	908.4	886.9	876.2	870.7
165°	910.7	911.9	917.0	922.1	917.0	911.9	910.7	899.2	883.9	876.2	873.7
167.5°	904.8	905.3	907.4	909.5	907.4	905.3	904.8	897.2	887.2	882.1	880.0
170°	904.8	904.8	904.8	904.8	904.8	904.8	904.8	897.2	887.2	882.1	882.0
172.5°	900.0	899.5	897.7	895.9	897.7	899.5	900.0	894.1	886.1	882.1	882.1
175°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	889.7	884.6	882.1	883.3
177.5°	892.3	891.7	889.6	887.5	889.6	891.7	892.3	889.3	885.4	883.4	884.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



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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°	26.3	16.7	15.5	10.7	5.9
92.5°	161.6	115.0	104.9	64.3	23.8
95°	397.7	223.9	205.4	131.3	57.2
97.5°	535.7	246.0	229.7	164.3	98.8
100°	585.9	264.4	249.6	190.3	131.0
102.5°	609.0	283.0	269.1	213.8	158.4
105°	626.0	310.4	298.6	251.8	204.9
107.5°	629.2	350.9	340.0	296.2	252.6
110°	624.5	373.5	363.7	324.1	284.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	624.7	400.9	391.6	353.9	316.3
115°	630.4	442.0	433.3	398.6	364.0
117.5°	642.1	481.9	474.1	442.5	411.0
120°	651.6	505.1	497.7	468.0	438.3
122.5°	665.3	532.5	525.1	495.1	465.2
125°	683.8	567.7	560.9	533.6	506.3
127.5°	702.2	601.6	594.7	567.2	539.7
130°	715.8	624.2	616.7	587.1	557.5
132.5°	726.7	642.7	635.3	605.7	576.0
135°	738.6	664.1	657.3	630.4	603.4
137.5°	756.5	691.5	684.8	658.1	631.4
140°	767.4	710.0	703.9	679.3	654.7
142.5°	776.5	723.7	718.0	695.2	672.5
145°	788.4	744.5	739.6	719.8	699.9
147.5°	805.9	770.8	765.9	746.6	727.2
150°	815.0	784.4	780.0	762.7	745.2
152.5°	821.0	793.4	790.1	776.9	763.6
155°	834.1	813.1	810.6	800.9	791.0
157.5°	847.2	832.7	830.3	820.8	811.3
160°	853.2	841.6	839.8	832.4	824.9
162.5°	859.5	851.2	849.8	844.2	838.7
165°	868.7	864.8	863.6	858.5	853.6
167.5°	875.7	872.6	872.0	869.6	867.2
170°	881.8	881.6	881.0	878.6	876.2
172.5°	882.1	882.1	882.0	881.5	881.0
175°	885.7	887.5	887.5	887.5	887.5
177.5°	886.1	887.5	887.5	887.5	887.5
180°	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P936085  
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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	12.26	13.02	13.32	14.08	15.52	15.06	15.82	16.12	16.88	18.32
	3H	12.73	13.41	13.80	14.48	15.94	16.39	17.07	17.45	18.14	19.59
	4H	12.92	13.56	14.00	14.63	16.10	16.82	17.46	17.90	18.54	20.00
	6H	13.03	13.63	14.12	14.70	16.18	17.09	17.68	18.18	18.76	20.24
	8H	13.03	13.59	14.12	14.69	16.16	17.16	17.72	18.25	18.81	20.28
	12H	13.00	13.53	14.09	14.62	16.11	17.19	17.73	18.29	18.81	20.30
4H	2H	13.27	13.92	14.36	14.99	16.45	15.46	16.10	16.54	17.17	18.64
	3H	14.29	14.83	15.38	15.93	17.40	16.94	17.48	18.04	18.58	20.06
	4H	14.56	15.06	15.66	16.14	17.64	17.46	17.95	18.56	19.04	20.54
	6H	14.68	15.11	15.79	16.22	17.71	17.81	18.24	18.92	19.35	20.84
	8H	14.69	15.08	15.79	16.18	17.69	17.91	18.31	19.02	19.41	20.92
	12H	14.65	15.01	15.77	16.12	17.63	17.96	18.32	19.08	19.43	20.94
8H	4H	15.00	15.40	16.11	16.50	18.01	17.58	17.97	18.68	19.08	20.58
	6H	15.26	15.59	16.39	16.73	18.24	18.00	18.33	19.13	19.47	20.98
	8H	15.30	15.59	16.44	16.71	18.24	18.15	18.43	19.28	19.56	21.08
	12H	15.28	15.53	16.42	16.66	18.22	18.24	18.49	19.37	19.61	21.17
12H	4H	15.00	15.36	16.13	16.48	17.99	17.54	17.90	18.66	19.01	20.52
	6H	15.32	15.60	16.45	16.73	18.25	18.00	18.28	19.13	19.41	20.93
	8H	15.38	15.63	16.52	16.75	18.31	18.15	18.40	19.29	19.52	21.08