

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: P935042

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

**Test Information**

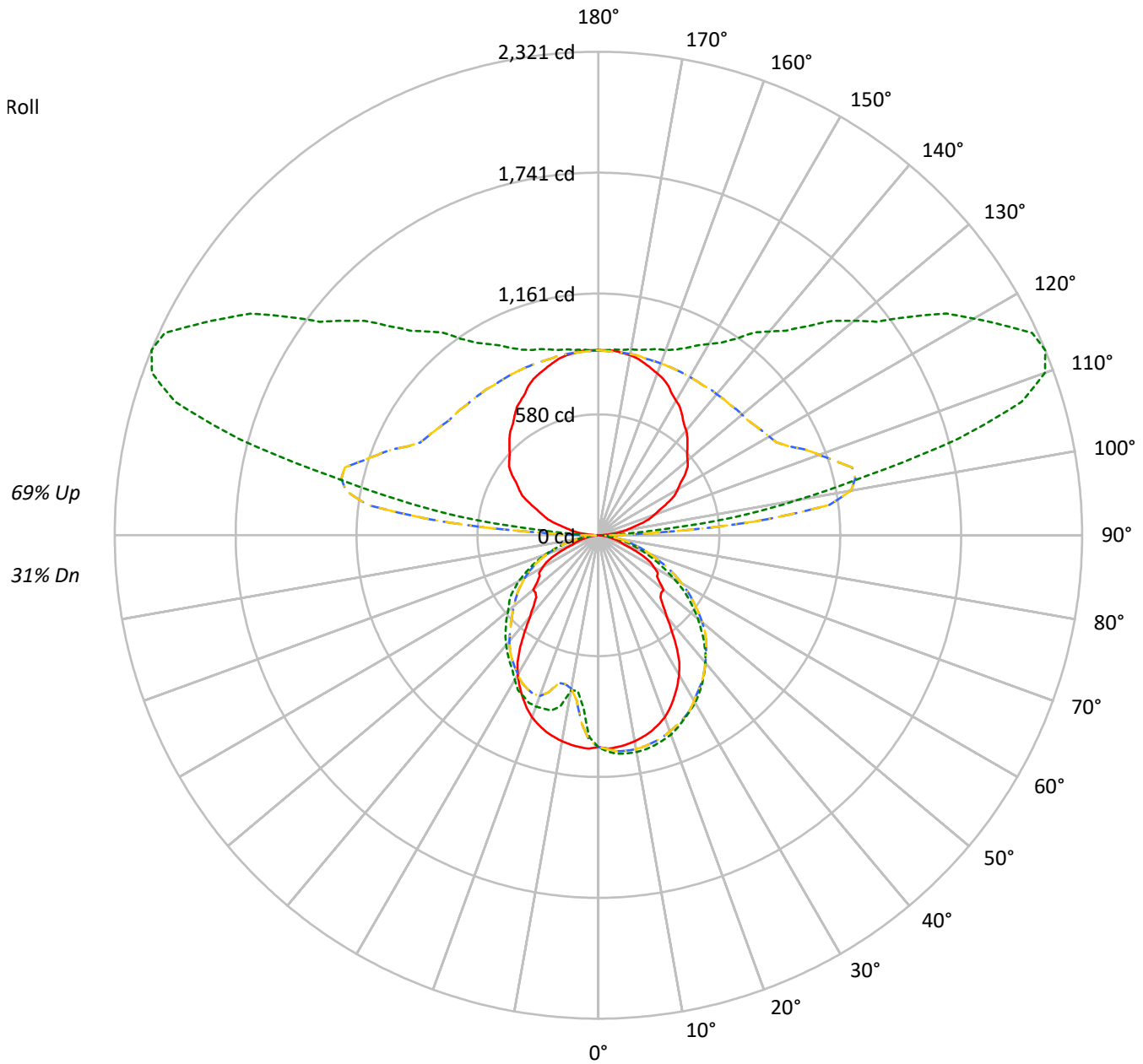
Test Method: LM-79-2019  
Report Number: P935042  
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8402.1 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 61.8  
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: P935042  
CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-6500K

### 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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6334	6349	6334	4992
10°	6289	6254	6289	4471
15°	6219	6119	6219	5109
20°	6087	5958	6087	5120
25°	5817	5724	5817	5012
30°	5472	5530	5472	4773
35°	4876	5284	4876	4511
40°	4060	4995	4060	4313
45°	3625	4655	3625	4086
50°	3848	4251	3848	3858
55°	3618	3816	3618	3726
60°	3724	3241	3724	3412
65°	3372	2679	3372	2995
70°	2328	2135	2328	2510
75°	2036	1578	2036	1890
80°	1627	1043	1627	1137
85°	918	552	918	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5560 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	1.1
10°-20°	260.6	3.1
20°-30°	402.8	4.8
30°-40°	480.9	5.7
40°-50°	483.7	5.8
50°-60°	420.9	5.0
60°-70°	298.4	3.6
70°-80°	157.9	1.9
80°-90°	42.7	0.5
90°-100°	433.3	5.2
100°-110°	1139.2	13.6
110°-120°	1181.2	14.1
120°-130°	947.5	11.3
130°-140°	743.4	8.8
140°-150°	570.6	6.8
150°-160°	410.9	4.9
160°-170°	251.4	3.0
170°-180°	84.9	1.0
0°-30°	755.2	9.0
0°-40°	1236.1	14.7
0°-60°	2140.6	25.5
0°-90°	2639.6	31.4
90°-120°	2753.7	32.8
90°-150°	5015.2	59.7
90°-180°	5762.0	68.6
0°-180°	8402.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1017	1017	1017	1017	1017	
5°	1022	1053	1022	828	1022	97
15°	975	1044	975	872	975	274
25°	859	974	859	852	859	394
35°	653	869	653	742	653	404
45°	421	716	421	628	421	337
55°	343	528	343	516	343	316
65°	239	318	239	356	239	228
75°	90	151	90	181	90	95
85°	15	38	15	33	15	21
90°	6	23	6	23	6	6
95°	57	262	57	262	57	64
105°	205	1784	205	1784	205	218
115°	364	2297	364	2297	364	360
125°	507	1829	507	1829	507	450
135°	604	1419	604	1419	604	468
145°	701	1151	701	1151	701	439
155°	792	992	792	992	792	364
165°	855	924	855	924	855	241
175°	889	895	889	895	889	84
180°	889	889	889	889	889	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1025.4	1025.4	1031.2	1033.1	1033.1	1030.2	1027.3	1030.2	1038.9	1041.8	1040.8
5°	1021.5	1029.2	1039.9	1041.8	1043.7	1042.7	1040.8	1042.7	1052.3	1054.3	1055.3
7.5°	1013.9	1028.3	1041.8	1044.6	1047.5	1044.6	1043.7	1045.6	1055.3	1057.2	1057.2
10°	1004.2	1024.5	1039.9	1041.8	1044.6	1041.8	1041.8	1045.6	1055.3	1057.2	1058.1
12.5°	990.8	1018.6	1033.1	1035.0	1038.9	1037.9	1036.9	1040.8	1050.4	1052.3	1052.3
15°	975.4	1008.1	1021.5	1023.5	1030.2	1028.3	1028.3	1032.1	1042.7	1045.6	1044.6
17.5°	954.2	994.6	1010.0	1012.9	1017.7	1016.7	1017.7	1021.5	1031.2	1033.1	1034.0
20°	930.2	976.4	994.6	997.5	1002.3	1002.3	1002.3	1007.2	1016.7	1020.5	1020.5
22.5°	897.5	957.1	976.4	978.3	984.0	984.0	985.9	992.7	1001.3	1002.3	1002.3
25°	858.9	935.9	952.3	958.1	963.8	966.7	969.6	973.5	976.4	975.4	976.4
27.5°	818.6	909.0	930.2	934.0	941.8	944.6	948.4	949.4	950.4	953.2	951.3
30°	773.4	871.5	903.2	907.0	919.6	921.5	917.7	919.6	924.4	926.4	928.3
32.5°	722.4	815.7	875.3	884.0	895.6	889.7	888.8	891.6	899.4	899.4	901.3
35°	653.2	772.4	849.4	857.0	865.7	858.9	862.9	863.8	868.6	871.5	870.5
37.5°	577.2	734.9	822.4	828.2	834.9	826.2	832.1	834.9	838.8	836.9	836.9
40°	509.8	676.2	790.7	794.5	800.3	793.5	799.4	801.3	803.2	801.3	800.3
42.5°	459.8	611.8	757.0	761.8	758.0	762.8	764.8	768.6	765.7	761.8	761.8
45°	421.3	594.5	720.5	726.2	720.5	728.1	731.0	731.0	722.4	720.5	719.5
47.5°	408.8	559.9	684.0	684.0	681.0	690.7	695.4	688.7	680.0	677.2	677.2
50°	407.8	521.3	633.9	630.0	643.5	655.1	650.2	643.5	636.8	626.2	626.2
52.5°	370.3	474.2	569.4	583.9	605.1	611.8	604.1	597.3	585.8	581.0	577.2
55°	343.4	425.1	510.8	539.7	561.8	570.4	556.0	549.2	531.9	529.1	527.1
57.5°	337.6	354.0	456.9	493.5	520.4	519.4	510.8	498.3	483.8	481.0	480.0
60°	309.7	255.9	399.2	442.5	470.4	467.5	459.8	448.3	434.8	432.9	431.0
62.5°	280.8	185.7	333.8	382.9	422.3	421.3	414.6	397.3	387.6	382.9	379.0
65°	238.6	155.9	237.6	318.4	375.1	377.0	362.7	350.2	339.5	333.8	332.9
67.5°	181.8	127.0	160.6	265.5	330.0	328.0	309.7	304.0	290.5	287.6	281.9
70°	134.6	84.6	111.6	215.4	285.7	280.8	266.5	259.7	247.2	240.5	236.7
72.5°	111.6	68.3	81.8	167.3	240.5	234.7	222.2	214.5	204.0	198.1	194.3
75°	90.5	72.1	62.5	124.1	195.3	191.4	179.9	172.2	163.5	155.9	156.8
77.5°	66.4	67.3	50.0	91.4	154.9	149.1	142.4	132.7	128.9	121.2	121.2
80°	50.0	52.9	37.5	62.5	111.6	111.6	105.9	99.1	92.4	88.5	88.5
82.5°	33.7	33.7	27.9	39.4	76.0	73.1	69.2	67.3	63.5	61.6	61.6
85°	15.4	19.2	17.3	24.0	41.4	43.3	43.3	41.4	40.4	38.4	39.4
87.5°	4.8	8.7	10.6	13.5	21.1	22.1	23.0	23.0	23.0	24.0	24.0
90°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.3	30.2	22.7	22.7
92.5°	23.9	64.4	105.0	115.1	161.9	224.1	255.3	223.7	160.6	113.3	108.8
95°	57.3	131.5	205.8	224.3	398.4	630.3	746.3	666.0	505.3	384.8	371.1
97.5°	99.1	164.6	230.1	246.4	536.5	923.4	1116.8	1066.1	964.5	888.3	862.3
100°	131.3	190.7	250.0	264.9	586.8	1016.1	1230.7	1234.4	1241.9	1247.4	1216.5
102.5°	158.7	214.2	269.6	283.4	610.0	1045.3	1262.9	1327.7	1457.0	1554.1	1527.6
105°	205.2	252.1	299.1	310.9	627.1	1048.7	1259.4	1404.5	1694.5	1912.0	1897.8
107.5°	252.9	296.7	340.5	351.4	630.2	1001.9	1187.8	1390.1	1794.7	2098.2	2101.6
110°	285.1	324.6	364.2	374.1	625.4	960.6	1128.1	1354.3	1806.6	2145.9	2160.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.8	354.5	392.1	401.5	625.6	924.4	1073.8	1305.3	1768.3	2115.5	2138.2
115°	364.5	399.2	433.9	442.6	631.4	882.9	1008.8	1231.8	1677.8	2012.3	2044.0
117.5°	411.6	443.2	474.7	482.6	643.0	857.0	964.0	1165.3	1567.8	1869.6	1904.7
120°	439.1	468.8	498.5	505.9	652.7	848.3	946.2	1130.0	1497.8	1773.6	1807.7
122.5°	466.0	495.9	525.9	533.4	666.4	843.7	932.5	1098.1	1429.2	1677.5	1711.2
125°	507.1	534.4	561.8	568.6	684.9	840.0	917.6	1058.2	1339.5	1550.6	1581.5
127.5°	540.5	568.1	595.7	602.6	703.4	837.8	905.0	1025.8	1267.3	1448.5	1474.6
130°	558.4	588.2	617.8	625.3	717.0	839.2	900.3	1007.7	1222.8	1384.1	1408.2
132.5°	576.9	606.6	636.3	643.7	727.9	840.0	896.0	992.3	1184.8	1329.2	1350.8
135°	604.3	631.4	658.4	665.2	739.8	839.2	888.9	969.5	1130.7	1251.7	1270.3
137.5°	632.3	659.1	686.0	692.7	757.7	844.4	887.7	955.9	1092.2	1194.4	1209.6
140°	655.7	680.3	705.0	711.1	768.6	845.2	883.5	942.4	1060.1	1148.4	1162.6
142.5°	673.5	696.4	719.2	724.9	777.8	848.2	883.5	935.3	1038.6	1116.2	1128.4
145°	701.0	720.9	740.8	745.7	789.7	848.3	877.6	919.9	1004.5	1067.9	1077.2
147.5°	728.4	747.7	767.1	771.9	807.1	854.1	877.6	910.9	977.4	1027.3	1035.0
150°	746.3	763.8	781.3	785.7	816.3	857.1	877.6	905.7	961.8	1004.0	1010.2
152.5°	764.9	778.1	791.3	794.7	822.3	859.1	877.6	901.6	949.6	985.5	990.2
155°	792.3	802.1	811.8	814.3	835.4	863.5	877.6	896.7	934.9	963.5	966.6
157.5°	812.6	822.1	831.6	834.0	848.5	867.9	877.6	892.4	922.2	944.4	946.6
160°	826.2	833.7	841.2	843.0	854.5	869.9	877.6	890.3	915.7	934.9	936.1
162.5°	840.0	845.6	851.1	852.5	860.9	872.0	877.6	888.3	909.8	925.9	927.0
165°	854.9	859.9	865.0	866.2	870.0	875.1	877.6	885.2	900.6	912.2	913.5
167.5°	868.6	871.0	873.4	874.0	877.1	881.4	883.5	888.6	898.6	906.2	906.8
170°	877.6	880.0	882.4	882.9	883.1	883.4	883.5	888.6	898.6	906.2	906.2
172.5°	882.4	882.9	883.4	883.5	883.5	883.5	883.5	887.5	895.5	901.4	900.9
175°	888.9	888.9	888.9	888.9	887.1	884.7	883.5	886.0	891.1	894.9	894.9
177.5°	888.9	888.9	888.9	888.9	887.5	885.7	884.8	886.8	890.7	893.7	893.1
180°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1042.7	1039.9	1042.7	1040.8	1041.8	1038.9	1030.2	1027.3	1030.2	1033.1	1033.1
5°	1055.3	1053.2	1055.3	1055.3	1054.3	1052.3	1042.7	1040.8	1042.7	1043.7	1041.8
7.5°	1059.1	1056.2	1059.1	1057.2	1057.2	1055.3	1045.6	1043.7	1044.6	1047.5	1044.6
10°	1059.1	1056.2	1059.1	1058.1	1057.2	1055.3	1045.6	1041.8	1041.8	1044.6	1041.8
12.5°	1054.3	1052.3	1054.3	1052.3	1052.3	1050.4	1040.8	1036.9	1037.9	1038.9	1035.0
15°	1046.6	1043.7	1046.6	1044.6	1045.6	1042.7	1032.1	1028.3	1028.3	1030.2	1023.5
17.5°	1035.0	1031.2	1035.0	1034.0	1033.1	1031.2	1021.5	1017.7	1016.7	1017.7	1012.9
20°	1021.5	1018.6	1021.5	1020.5	1020.5	1016.7	1007.2	1002.3	1002.3	1002.3	997.5
22.5°	1000.4	997.5	1000.4	1002.3	1002.3	1001.3	992.7	985.9	984.0	984.0	978.3
25°	976.4	973.5	976.4	976.4	975.4	976.4	973.5	969.6	966.7	963.8	958.1
27.5°	953.2	951.3	953.2	951.3	953.2	950.4	949.4	948.4	944.6	941.8	934.0
30°	930.2	928.3	930.2	928.3	926.4	924.4	919.6	917.7	921.5	919.6	907.0
32.5°	901.3	899.4	901.3	901.3	899.4	899.4	891.6	888.8	889.7	895.6	884.0
35°	871.5	868.6	871.5	870.5	871.5	868.6	863.8	862.9	858.9	865.7	857.0
37.5°	836.9	834.0	836.9	836.9	836.9	838.8	834.9	832.1	826.2	834.9	828.2
40°	801.3	797.5	801.3	800.3	801.3	803.2	801.3	799.4	793.5	800.3	794.5
42.5°	760.8	759.9	760.8	761.8	761.8	765.7	768.6	764.8	762.8	758.0	761.8
45°	717.6	715.6	717.6	719.5	720.5	722.4	731.0	731.0	728.1	720.5	726.2
47.5°	671.4	666.6	671.4	677.2	677.2	680.0	688.7	695.4	690.7	681.0	684.0
50°	622.4	623.3	622.4	626.2	626.2	636.8	643.5	650.2	655.1	643.5	630.0
52.5°	574.3	573.3	574.3	577.2	581.0	585.8	597.3	604.1	611.8	605.1	583.9
55°	526.2	528.1	526.2	527.1	529.1	531.9	549.2	556.0	570.4	561.8	539.7
57.5°	478.1	475.2	478.1	480.0	481.0	483.8	498.3	510.8	519.4	520.4	493.5
60°	422.3	418.4	422.3	431.0	432.9	434.8	448.3	459.8	467.5	470.4	442.5
62.5°	373.2	366.5	373.2	379.0	382.9	387.6	397.3	414.6	421.3	422.3	382.9
65°	321.3	318.4	321.3	332.9	333.8	339.5	350.2	362.7	377.0	375.1	318.4
67.5°	274.1	274.1	274.1	281.9	287.6	290.5	304.0	309.7	328.0	330.0	265.5
70°	230.8	229.9	230.8	236.7	240.5	247.2	259.7	266.5	280.8	285.7	215.4
72.5°	189.5	188.6	189.5	194.3	198.1	204.0	214.5	222.2	234.7	240.5	167.3
75°	153.0	151.0	153.0	156.8	155.9	163.5	172.2	179.9	191.4	195.3	124.1
77.5°	117.3	117.3	117.3	121.2	121.2	128.9	132.7	142.4	149.1	154.9	91.4
80°	87.5	86.5	87.5	88.5	88.5	92.4	99.1	105.9	111.6	111.6	62.5
82.5°	61.6	59.7	61.6	61.6	61.6	63.5	67.3	69.2	73.1	76.0	39.4
85°	38.4	38.4	38.4	39.4	38.4	40.4	41.4	43.3	43.3	41.4	24.0
87.5°	25.1	24.0	25.1	24.0	24.0	23.0	23.0	23.0	22.1	21.1	13.5
90°	22.7	22.7	22.7	22.7	22.7	30.2	40.3	45.3	39.0	26.3	16.7
92.5°	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.3	224.1	161.9	115.1
95°	316.5	261.9	316.5	371.1	384.8	505.3	666.0	746.3	630.3	398.4	224.3
97.5°	758.4	654.4	758.4	862.3	888.3	964.5	1066.1	1116.8	923.4	536.5	246.4
100°	1092.6	968.8	1092.6	1216.5	1247.4	1241.9	1234.4	1230.7	1016.1	586.8	264.9
102.5°	1421.5	1315.4	1421.5	1527.6	1554.1	1457.0	1327.7	1262.9	1045.3	610.0	283.4
105°	1840.8	1783.8	1840.8	1897.8	1912.0	1694.5	1404.5	1259.4	1048.7	627.1	310.9
107.5°	2115.5	2129.3	2115.5	2101.6	2098.2	1794.7	1390.1	1187.8	1001.9	630.2	351.4
110°	2220.2	2279.6	2220.2	2160.7	2145.9	1806.6	1354.3	1128.1	960.6	625.4	374.1





TEST NUMBER: P935042

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2229.5	2320.7	2229.5	2138.2	2115.5	1768.3	1305.3	1073.8	924.4	625.6	401.5
115°	2170.4	2296.9	2170.4	2044.0	2012.3	1677.8	1231.8	1008.8	882.9	631.4	442.6
117.5°	2045.0	2185.3	2045.0	1904.7	1869.6	1567.8	1165.3	964.0	857.0	643.0	482.6
120°	1944.0	2080.3	1944.0	1807.7	1773.6	1497.8	1130.0	946.2	848.3	652.7	505.9
122.5°	1845.6	1980.1	1845.6	1711.2	1677.5	1429.2	1098.1	932.5	843.7	666.4	533.4
125°	1705.3	1829.1	1705.3	1581.5	1550.6	1339.5	1058.2	917.6	840.0	684.9	568.6
127.5°	1579.2	1683.6	1579.2	1474.6	1448.5	1267.3	1025.8	905.0	837.8	703.4	602.6
130°	1504.8	1601.2	1504.8	1408.2	1384.1	1222.8	1007.7	900.3	839.2	717.0	625.3
132.5°	1437.3	1523.7	1437.3	1350.8	1329.2	1184.8	992.3	896.0	840.0	727.9	643.7
135°	1344.8	1419.3	1344.8	1270.3	1251.7	1130.7	969.5	888.9	839.2	739.8	665.2
137.5°	1270.6	1331.6	1270.6	1209.6	1194.4	1092.2	955.9	887.7	844.4	757.7	692.7
140°	1219.7	1276.7	1219.7	1162.6	1148.4	1060.1	942.4	883.5	845.2	768.6	711.1
142.5°	1177.6	1226.6	1177.6	1128.4	1116.2	1038.6	935.3	883.5	848.2	777.8	724.9
145°	1114.3	1151.4	1114.3	1077.2	1067.9	1004.5	919.9	877.6	848.3	789.7	745.7
147.5°	1065.8	1096.6	1065.8	1035.0	1027.3	977.4	910.9	877.6	854.1	807.1	771.9
150°	1035.2	1060.1	1035.2	1010.2	1004.0	961.8	905.7	877.6	857.1	816.3	785.7
152.5°	1009.1	1027.9	1009.1	990.2	985.5	949.6	901.6	877.6	859.1	822.3	794.7
155°	979.0	991.5	979.0	966.6	963.5	934.9	896.7	877.6	863.5	835.4	814.3
157.5°	955.3	964.0	955.3	946.6	944.4	922.2	892.4	877.6	867.9	848.5	834.0
160°	941.2	946.2	941.2	936.1	934.9	915.7	890.3	877.6	869.9	854.5	843.0
162.5°	931.8	936.6	931.8	927.0	925.9	909.8	888.3	877.6	872.0	860.9	852.5
165°	918.5	923.5	918.5	913.5	912.2	900.6	885.2	877.6	875.1	870.0	866.2
167.5°	908.9	911.0	908.9	906.8	906.2	898.6	888.6	883.5	881.4	877.1	874.0
170°	906.2	906.2	906.2	906.2	906.2	898.6	888.6	883.5	883.4	883.1	882.9
172.5°	899.1	897.3	899.1	900.9	901.4	895.5	887.5	883.5	883.5	883.5	883.5
175°	894.9	894.9	894.9	894.9	894.9	891.1	886.0	883.5	884.7	887.1	888.9
177.5°	891.0	888.9	891.0	893.1	893.7	890.7	886.8	884.8	885.7	887.5	888.9
180°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9



TEST NUMBER: P935042

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1031.2	1025.4	1025.4	1015.8	1011.9	1009.1	1004.2	989.9	985.9	982.1	987.8
5°	1039.9	1029.2	1021.5	1004.2	989.9	984.0	965.8	931.1	908.0	890.7	881.1
7.5°	1041.8	1028.3	1013.9	986.9	952.3	936.9	881.1	817.6	800.3	784.9	775.3
10°	1039.9	1024.5	1004.2	963.8	882.1	855.1	799.4	758.0	747.4	744.5	747.4
12.5°	1033.1	1018.6	990.8	923.4	808.9	790.7	758.0	734.0	732.0	736.8	762.8
15°	1021.5	1008.1	975.4	869.6	768.6	755.1	732.0	723.4	734.0	767.6	845.6
17.5°	1010.0	994.6	954.2	816.7	737.8	728.1	711.8	729.1	788.8	834.0	859.9
20°	994.6	976.4	930.2	778.1	715.6	707.0	699.3	777.2	822.4	838.8	853.2
22.5°	976.4	957.1	897.5	751.3	692.6	685.9	690.7	804.2	822.4	834.0	846.5
25°	952.3	935.9	858.9	730.1	674.3	666.6	684.9	801.3	811.8	814.8	839.7
27.5°	930.2	909.0	818.6	710.8	652.2	649.3	689.7	788.8	796.5	799.4	826.2
30°	903.2	871.5	773.4	690.7	629.1	628.1	690.7	773.4	771.5	779.1	806.1
32.5°	875.3	815.7	722.4	665.6	607.0	606.0	684.0	750.3	748.4	758.9	779.1
35°	849.4	772.4	653.2	636.8	579.1	580.0	667.5	723.4	724.3	734.0	746.4
37.5°	822.4	734.9	577.2	605.1	552.1	552.1	645.4	698.3	696.4	699.3	716.7
40°	790.7	676.2	509.8	563.7	527.1	524.3	618.5	671.4	664.6	663.7	687.8
42.5°	757.0	611.8	459.8	508.9	498.3	494.4	585.8	638.7	626.2	629.1	659.9
45°	720.5	594.5	421.3	430.0	468.4	465.6	550.2	601.2	592.6	600.2	631.9
47.5°	684.0	559.9	408.8	356.9	436.7	435.7	510.8	564.6	559.9	567.5	601.2
50°	633.9	521.3	407.8	305.9	401.1	404.9	463.7	529.1	529.1	535.8	571.4
52.5°	569.4	474.2	370.3	277.0	359.7	371.3	422.3	498.3	500.2	507.0	538.6
55°	510.8	425.1	343.4	254.9	310.7	335.7	381.9	466.5	470.4	477.1	505.9
57.5°	456.9	354.0	337.6	228.9	265.5	289.5	346.3	435.7	437.6	443.5	471.3
60°	399.2	255.9	309.7	201.0	226.0	244.3	313.5	399.2	405.9	409.7	433.8
62.5°	333.8	185.7	280.8	181.8	206.8	210.6	286.7	364.6	373.2	376.1	390.5
65°	237.6	155.9	238.6	165.4	186.6	187.6	257.8	328.9	336.7	341.5	352.1
67.5°	160.6	127.0	181.8	150.0	171.3	172.2	229.9	287.6	298.2	302.1	308.8
70°	111.6	84.6	134.6	133.7	153.9	155.9	200.0	250.1	259.7	262.6	266.5
72.5°	81.8	68.3	111.6	120.2	135.6	137.6	169.3	207.8	217.4	220.3	222.2
75°	62.5	72.1	90.5	104.9	115.4	116.4	138.6	169.3	176.0	177.9	178.9
77.5°	50.0	67.3	66.4	84.6	94.3	92.4	108.7	130.8	136.5	136.5	136.5
80°	37.5	52.9	50.0	60.6	69.2	67.3	77.9	93.3	95.2	97.1	96.2
82.5°	27.9	33.7	33.7	38.4	46.2	44.3	51.9	60.6	60.6	60.6	62.5
85°	17.3	19.2	15.4	20.2	26.0	25.1	28.9	32.7	33.7	33.7	31.7
87.5°	10.6	8.7	4.8	7.6	11.6	11.6	13.5	14.4	13.5	13.5	13.5
90°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.3	30.2
92.5°	105.0	64.4	23.9	64.4	105.0	115.1	161.9	224.1	255.3	223.7	160.6
95°	205.8	131.5	57.3	131.5	205.8	224.3	398.4	630.3	746.3	666.0	505.3
97.5°	230.1	164.6	99.1	164.6	230.1	246.4	536.5	923.4	1116.8	1066.1	964.5
100°	250.0	190.7	131.3	190.7	250.0	264.9	586.8	1016.1	1230.7	1234.4	1241.9
102.5°	269.6	214.2	158.7	214.2	269.6	283.4	610.0	1045.3	1262.9	1327.7	1457.0
105°	299.1	252.1	205.2	252.1	299.1	310.9	627.1	1048.7	1259.4	1404.5	1694.5
107.5°	340.5	296.7	252.9	296.7	340.5	351.4	630.2	1001.9	1187.8	1390.1	1794.7
110°	364.2	324.6	285.1	324.6	364.2	374.1	625.4	960.6	1128.1	1354.3	1806.6



TEST NUMBER: P935042

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	392.1	354.5	316.8	354.5	392.1	401.5	625.6	924.4	1073.8	1305.3	1768.3
115°	433.9	399.2	364.5	399.2	433.9	442.6	631.4	882.9	1008.8	1231.8	1677.8
117.5°	474.7	443.2	411.6	443.2	474.7	482.6	643.0	857.0	964.0	1165.3	1567.8
120°	498.5	468.8	439.1	468.8	498.5	505.9	652.7	848.3	946.2	1130.0	1497.8
122.5°	525.9	495.9	466.0	495.9	525.9	533.4	666.4	843.7	932.5	1098.1	1429.2
125°	561.8	534.4	507.1	534.4	561.8	568.6	684.9	840.0	917.6	1058.2	1339.5
127.5°	595.7	568.1	540.5	568.1	595.7	602.6	703.4	837.8	905.0	1025.8	1267.3
130°	617.8	588.2	558.4	588.2	617.8	625.3	717.0	839.2	900.3	1007.7	1222.8
132.5°	636.3	606.6	576.9	606.6	636.3	643.7	727.9	840.0	896.0	992.3	1184.8
135°	658.4	631.4	604.3	631.4	658.4	665.2	739.8	839.2	888.9	969.5	1130.7
137.5°	686.0	659.1	632.3	659.1	686.0	692.7	757.7	844.4	887.7	955.9	1092.2
140°	705.0	680.3	655.7	680.3	705.0	711.1	768.6	845.2	883.5	942.4	1060.1
142.5°	719.2	696.4	673.5	696.4	719.2	724.9	777.8	848.2	883.5	935.3	1038.6
145°	740.8	720.9	701.0	720.9	740.8	745.7	789.7	848.3	877.6	919.9	1004.5
147.5°	767.1	747.7	728.4	747.7	767.1	771.9	807.1	854.1	877.6	910.9	977.4
150°	781.3	763.8	746.3	763.8	781.3	785.7	816.3	857.1	877.6	905.7	961.8
152.5°	791.3	778.1	764.9	778.1	791.3	794.7	822.3	859.1	877.6	901.6	949.6
155°	811.8	802.1	792.3	802.1	811.8	814.3	835.4	863.5	877.6	896.7	934.9
157.5°	831.6	822.1	812.6	822.1	831.6	834.0	848.5	867.9	877.6	892.4	922.2
160°	841.2	833.7	826.2	833.7	841.2	843.0	854.5	869.9	877.6	890.3	915.7
162.5°	851.1	845.6	840.0	845.6	851.1	852.5	860.9	872.0	877.6	888.3	909.8
165°	865.0	859.9	854.9	859.9	865.0	866.2	870.0	875.1	877.6	885.2	900.6
167.5°	873.4	871.0	868.6	871.0	873.4	874.0	877.1	881.4	883.5	888.6	898.6
170°	882.4	880.0	877.6	880.0	882.4	882.9	883.1	883.4	883.5	888.6	898.6
172.5°	883.4	882.9	882.4	882.9	883.4	883.5	883.5	883.5	883.5	887.5	895.5
175°	888.9	888.9	888.9	888.9	888.9	888.9	887.1	884.7	883.5	886.0	891.1
177.5°	888.9	888.9	888.9	888.9	888.9	888.9	887.5	885.7	884.8	886.8	890.7
180°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9



TEST NUMBER: P935042

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	981.1	978.3	982.1	971.5	982.1	978.3	981.1	987.8	982.1	985.9	989.9
5°	861.0	856.1	840.7	828.2	840.7	856.1	861.0	881.1	890.7	908.0	931.1
7.5°	769.5	765.7	761.8	754.1	761.8	765.7	769.5	775.3	784.9	800.3	817.6
10°	749.4	750.3	756.1	755.1	756.1	750.3	749.4	747.4	744.5	747.4	758.0
12.5°	801.3	809.9	841.6	839.7	841.6	809.9	801.3	762.8	736.8	732.0	734.0
15°	861.0	863.8	870.5	871.5	870.5	863.8	861.0	845.6	767.6	734.0	723.4
17.5°	866.7	867.6	872.4	872.4	872.4	867.6	866.7	859.9	834.0	788.8	729.1
20°	861.9	863.8	873.4	875.3	873.4	863.8	861.9	853.2	838.8	822.4	777.2
22.5°	859.9	863.8	871.5	870.5	871.5	863.8	859.9	846.5	834.0	822.4	804.2
25°	850.3	850.3	851.3	852.3	851.3	850.3	850.3	839.7	814.8	811.8	801.3
27.5°	830.2	832.1	837.8	836.9	837.8	832.1	830.2	826.2	799.4	796.5	788.8
30°	811.8	809.9	805.1	801.3	805.1	809.9	811.8	806.1	779.1	771.5	773.4
32.5°	781.1	776.2	771.5	768.6	771.5	776.2	781.1	779.1	758.9	748.4	750.3
35°	744.5	745.4	744.5	741.6	744.5	745.4	744.5	746.4	734.0	724.3	723.4
37.5°	718.6	720.5	719.5	715.6	719.5	720.5	718.6	716.7	699.3	696.4	698.3
40°	691.6	692.6	691.6	688.7	691.6	692.6	691.6	687.8	663.7	664.6	671.4
42.5°	665.6	664.6	661.8	659.9	661.8	664.6	665.6	659.9	629.1	626.2	638.7
45°	635.9	636.8	631.0	628.1	631.0	636.8	635.9	631.9	600.2	592.6	601.2
47.5°	606.0	606.0	601.2	598.3	601.2	606.0	606.0	601.2	567.5	559.9	564.6
50°	574.3	573.3	566.5	565.6	566.5	573.3	574.3	571.4	535.8	529.1	529.1
52.5°	537.7	537.7	538.6	540.6	538.6	537.7	537.7	538.6	507.0	500.2	498.3
55°	505.9	507.0	513.7	515.6	513.7	507.0	505.9	505.9	477.1	470.4	466.5
57.5°	473.2	473.2	478.1	478.1	478.1	473.2	473.2	471.3	443.5	437.6	435.7
60°	435.7	437.6	441.5	440.5	441.5	437.6	435.7	433.8	409.7	405.9	399.2
62.5°	396.3	398.3	399.2	397.3	399.2	398.3	396.3	390.5	376.1	373.2	364.6
65°	354.9	356.9	357.8	355.9	357.8	356.9	354.9	352.1	341.5	336.7	328.9
67.5°	312.6	311.6	310.7	314.6	310.7	311.6	312.6	308.8	302.1	298.2	287.6
70°	269.4	269.4	268.4	270.3	268.4	269.4	269.4	266.5	262.6	259.7	250.1
72.5°	223.2	222.2	226.0	223.2	226.0	222.2	223.2	222.2	220.3	217.4	207.8
75°	177.9	179.9	177.9	180.8	177.9	179.9	177.9	178.9	177.9	176.0	169.3
77.5°	135.6	137.6	135.6	135.6	135.6	137.6	135.6	136.5	136.5	136.5	130.8
80°	96.2	95.2	95.2	94.3	95.2	95.2	96.2	96.2	97.1	95.2	93.3
82.5°	61.6	60.6	60.6	62.5	60.6	60.6	61.6	62.5	60.6	60.6	60.6
85°	33.7	34.6	32.7	32.7	32.7	34.6	33.7	31.7	33.7	33.7	32.7
87.5°	12.5	11.6	11.6	11.6	11.6	11.6	12.5	13.5	13.5	13.5	14.4
90°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	30.2	40.3	45.3	39.0
92.5°	113.3	108.8	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.3	224.1
95°	384.8	371.1	316.5	261.9	316.5	371.1	384.8	505.3	666.0	746.3	630.3
97.5°	888.3	862.3	758.4	654.4	758.4	862.3	888.3	964.5	1066.1	1116.8	923.4
100°	1247.4	1216.5	1092.6	968.8	1092.6	1216.5	1247.4	1241.9	1234.4	1230.7	1016.1
102.5°	1554.1	1527.6	1421.5	1315.4	1421.5	1527.6	1554.1	1457.0	1327.7	1262.9	1045.3
105°	1912.0	1897.8	1840.8	1783.8	1840.8	1897.8	1912.0	1694.5	1404.5	1259.4	1048.7
107.5°	2098.2	2101.6	2115.5	2129.3	2115.5	2101.6	2098.2	1794.7	1390.1	1187.8	1001.9
110°	2145.9	2160.7	2220.2	2279.6	2220.2	2160.7	2145.9	1806.6	1354.3	1128.1	960.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2115.5	2138.2	2229.5	2320.7	2229.5	2138.2	2115.5	1768.3	1305.3	1073.8	924.4
115°	2012.3	2044.0	2170.4	2296.9	2170.4	2044.0	2012.3	1677.8	1231.8	1008.8	882.9
117.5°	1869.6	1904.7	2045.0	2185.3	2045.0	1904.7	1869.6	1567.8	1165.3	964.0	857.0
120°	1773.6	1807.7	1944.0	2080.3	1944.0	1807.7	1773.6	1497.8	1130.0	946.2	848.3
122.5°	1677.5	1711.2	1845.6	1980.1	1845.6	1711.2	1677.5	1429.2	1098.1	932.5	843.7
125°	1550.6	1581.5	1705.3	1829.1	1705.3	1581.5	1550.6	1339.5	1058.2	917.6	840.0
127.5°	1448.5	1474.6	1579.2	1683.6	1579.2	1474.6	1448.5	1267.3	1025.8	905.0	837.8
130°	1384.1	1408.2	1504.8	1601.2	1504.8	1408.2	1384.1	1222.8	1007.7	900.3	839.2
132.5°	1329.2	1350.8	1437.3	1523.7	1437.3	1350.8	1329.2	1184.8	992.3	896.0	840.0
135°	1251.7	1270.3	1344.8	1419.3	1344.8	1270.3	1251.7	1130.7	969.5	888.9	839.2
137.5°	1194.4	1209.6	1270.6	1331.6	1270.6	1209.6	1194.4	1092.2	955.9	887.7	844.4
140°	1148.4	1162.6	1219.7	1276.7	1219.7	1162.6	1148.4	1060.1	942.4	883.5	845.2
142.5°	1116.2	1128.4	1177.6	1226.6	1177.6	1128.4	1116.2	1038.6	935.3	883.5	848.2
145°	1067.9	1077.2	1114.3	1151.4	1114.3	1077.2	1067.9	1004.5	919.9	877.6	848.3
147.5°	1027.3	1035.0	1065.8	1096.6	1065.8	1035.0	1027.3	977.4	910.9	877.6	854.1
150°	1004.0	1010.2	1035.2	1060.1	1035.2	1010.2	1004.0	961.8	905.7	877.6	857.1
152.5°	985.5	990.2	1009.1	1027.9	1009.1	990.2	985.5	949.6	901.6	877.6	859.1
155°	963.5	966.6	979.0	991.5	979.0	966.6	963.5	934.9	896.7	877.6	863.5
157.5°	944.4	946.6	955.3	964.0	955.3	946.6	944.4	922.2	892.4	877.6	867.9
160°	934.9	936.1	941.2	946.2	941.2	936.1	934.9	915.7	890.3	877.6	869.9
162.5°	925.9	927.0	931.8	936.6	931.8	927.0	925.9	909.8	888.3	877.6	872.0
165°	912.2	913.5	918.5	923.5	918.5	913.5	912.2	900.6	885.2	877.6	875.1
167.5°	906.2	906.8	908.9	911.0	908.9	906.8	906.2	898.6	888.6	883.5	881.4
170°	906.2	906.2	906.2	906.2	906.2	906.2	906.2	898.6	888.6	883.5	883.4
172.5°	901.4	900.9	899.1	897.3	899.1	900.9	901.4	895.5	887.5	883.5	883.5
175°	894.9	894.9	894.9	894.9	894.9	894.9	894.9	891.1	886.0	883.5	884.7
177.5°	893.7	893.1	891.0	888.9	891.0	893.1	893.7	890.7	886.8	884.8	885.7
180°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1004.2	1009.1	1011.9	1015.8	1025.4
5°	965.8	984.0	989.9	1004.2	1021.5
7.5°	881.1	936.9	952.3	986.9	1013.9
10°	799.4	855.1	882.1	963.8	1004.2
12.5°	758.0	790.7	808.9	923.4	990.8
15°	732.0	755.1	768.6	869.6	975.4
17.5°	711.8	728.1	737.8	816.7	954.2
20°	699.3	707.0	715.6	778.1	930.2
22.5°	690.7	685.9	692.6	751.3	897.5
25°	684.9	666.6	674.3	730.1	858.9
27.5°	689.7	649.3	652.2	710.8	818.6
30°	690.7	628.1	629.1	690.7	773.4
32.5°	684.0	606.0	607.0	665.6	722.4
35°	667.5	580.0	579.1	636.8	653.2
37.5°	645.4	552.1	552.1	605.1	577.2
40°	618.5	524.3	527.1	563.7	509.8
42.5°	585.8	494.4	498.3	508.9	459.8
45°	550.2	465.6	468.4	430.0	421.3
47.5°	510.8	435.7	436.7	356.9	408.8
50°	463.7	404.9	401.1	305.9	407.8
52.5°	422.3	371.3	359.7	277.0	370.3
55°	381.9	335.7	310.7	254.9	343.4
57.5°	346.3	289.5	265.5	228.9	337.6
60°	313.5	244.3	226.0	201.0	309.7
62.5°	286.7	210.6	206.8	181.8	280.8
65°	257.8	187.6	186.6	165.4	238.6
67.5°	229.9	172.2	171.3	150.0	181.8
70°	200.0	155.9	153.9	133.7	134.6
72.5°	169.3	137.6	135.6	120.2	111.6
75°	138.6	116.4	115.4	104.9	90.5
77.5°	108.7	92.4	94.3	84.6	66.4
80°	77.9	67.3	69.2	60.6	50.0
82.5°	51.9	44.3	46.2	38.4	33.7
85°	28.9	25.1	26.0	20.2	15.4
87.5°	13.5	11.6	11.6	7.6	4.8
90°	26.3	16.7	15.5	10.7	5.9
92.5°	161.9	115.1	105.0	64.4	23.9
95°	398.4	224.3	205.8	131.5	57.3
97.5°	536.5	246.4	230.1	164.6	99.1
100°	586.8	264.9	250.0	190.7	131.3
102.5°	610.0	283.4	269.6	214.2	158.7
105°	627.1	310.9	299.1	252.1	205.2
107.5°	630.2	351.4	340.5	296.7	252.9
110°	625.4	374.1	364.2	324.6	285.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	625.6	401.5	392.1	354.5	316.8
115°	631.4	442.6	433.9	399.2	364.5
117.5°	643.0	482.6	474.7	443.2	411.6
120°	652.7	505.9	498.5	468.8	439.1
122.5°	666.4	533.4	525.9	495.9	466.0
125°	684.9	568.6	561.8	534.4	507.1
127.5°	703.4	602.6	595.7	568.1	540.5
130°	717.0	625.3	617.8	588.2	558.4
132.5°	727.9	643.7	636.3	606.6	576.9
135°	739.8	665.2	658.4	631.4	604.3
137.5°	757.7	692.7	686.0	659.1	632.3
140°	768.6	711.1	705.0	680.3	655.7
142.5°	777.8	724.9	719.2	696.4	673.5
145°	789.7	745.7	740.8	720.9	701.0
147.5°	807.1	771.9	767.1	747.7	728.4
150°	816.3	785.7	781.3	763.8	746.3
152.5°	822.3	794.7	791.3	778.1	764.9
155°	835.4	814.3	811.8	802.1	792.3
157.5°	848.5	834.0	831.6	822.1	812.6
160°	854.5	843.0	841.2	833.7	826.2
162.5°	860.9	852.5	851.1	845.6	840.0
165°	870.0	866.2	865.0	859.9	854.9
167.5°	877.1	874.0	873.4	871.0	868.6
170°	883.1	882.9	882.4	880.0	877.6
172.5°	883.5	883.5	883.4	882.9	882.4
175°	887.1	888.9	888.9	888.9	888.9
177.5°	887.5	888.9	888.9	888.9	888.9
180°	888.9	888.9	888.9	888.9	888.9



TEST NUMBER: P935042

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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	9.17	9.88	10.27	10.98	12.50	11.99	12.71	13.09	13.81	15.32
	3H	9.63	10.27	10.74	11.38	12.91	13.32	13.96	14.43	15.07	16.60
	4H	9.82	10.43	10.94	11.53	13.07	13.76	14.37	14.88	15.48	17.01
	6H	9.93	10.49	11.06	11.60	13.15	14.04	14.60	15.17	15.71	17.25
	8H	9.93	10.46	11.06	11.58	13.13	14.11	14.64	15.24	15.76	17.31
	12H	9.89	10.40	11.03	11.52	13.08	14.14	14.64	15.28	15.76	17.33
4H	2H	10.18	10.79	11.31	11.90	13.43	12.38	12.99	13.51	14.10	15.64
	3H	11.19	11.70	12.33	12.84	14.38	13.87	14.38	15.01	15.51	17.06
	4H	11.46	11.93	12.60	13.05	14.62	14.39	14.86	15.53	15.98	17.55
	6H	11.58	11.98	12.72	13.13	14.69	14.75	15.15	15.89	16.30	17.86
	8H	11.58	11.96	12.73	13.09	14.67	14.85	15.22	16.00	16.36	17.94
	12H	11.54	11.88	12.70	13.03	14.61	14.90	15.24	16.06	16.39	17.97
8H	4H	11.90	12.28	13.05	13.42	14.99	14.51	14.88	15.65	16.02	17.59
	6H	12.16	12.47	13.32	13.65	15.22	14.94	15.24	16.10	16.42	18.00
	8H	12.20	12.47	13.37	13.63	15.22	15.09	15.35	16.26	16.51	18.11
	12H	12.18	12.41	13.35	13.57	15.20	15.18	15.41	16.35	16.57	18.20
12H	4H	11.90	12.24	13.06	13.39	14.97	14.46	14.80	15.62	15.95	17.53
	6H	12.22	12.49	13.39	13.65	15.24	14.93	15.20	16.10	16.36	17.95
	8H	12.28	12.52	13.45	13.67	15.30	15.09	15.32	16.26	16.48	18.11