

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: P935836

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935836
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

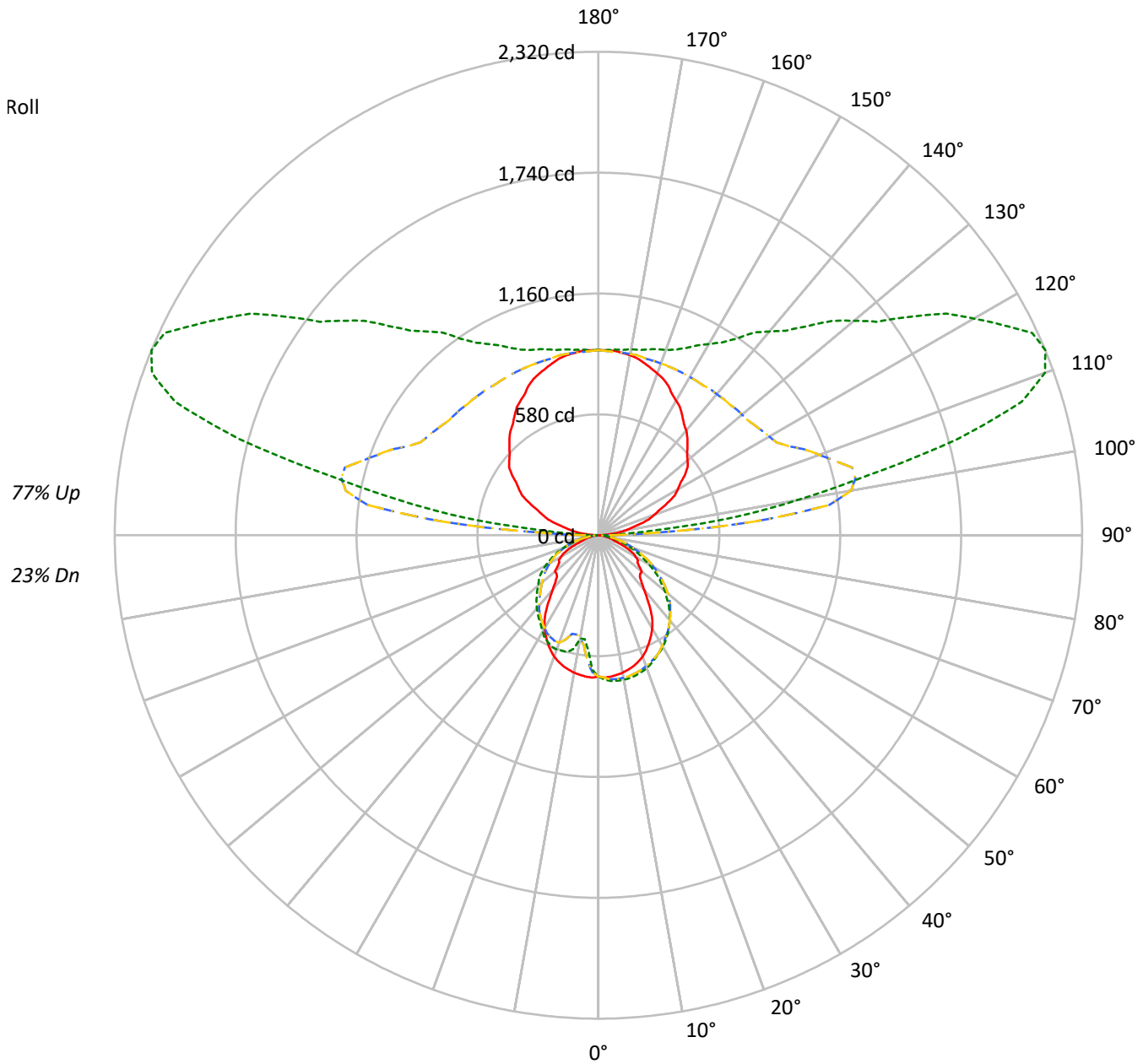
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7521.4 lumens
Efficiency: N/A
Efficacy: 135.3 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): 55.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-6500K

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	50	30	10	0
RCR																					
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6329	6349	6329	4992
10°	6281	6254	6281	4471
15°	6205	6119	6205	5109
20°	6068	5958	6068	5120
25°	5796	5724	5796	5012
30°	5446	5529	5446	4773
35°	4848	5284	4848	4511
40°	4031	4994	4031	4314
45°	3595	4656	3595	4086
50°	3812	4252	3812	3857
55°	3575	3817	3575	3727
60°	3673	3241	3673	3412
65°	3313	2680	3313	2994
70°	2280	2136	2280	2510
75°	1974	1579	1974	1891
80°	1563	1045	1563	1135
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	0.8
10°-20°	173.7	2.3
20°-30°	268.5	3.6
30°-40°	320.6	4.3
40°-50°	322.5	4.3
50°-60°	280.6	3.7
60°-70°	198.9	2.6
70°-80°	105.3	1.4
80°-90°	29.6	0.4
90°-100°	433.2	5.8
100°-110°	1138.8	15.1
110°-120°	1180.8	15.7
120°-130°	947.2	12.6
130°-140°	743.2	9.9
140°-150°	570.4	7.6
150°-160°	410.8	5.5
160°-170°	251.3	3.3
170°-180°	84.9	1.1
0°-30°	503.5	6.7
0°-40°	824.0	11.0
0°-60°	1427.1	19.0
0°-90°	1760.9	23.4
90°-120°	2752.8	36.6
90°-150°	5013.5	66.7
90°-180°	5761.0	76.6
0°-180°	7521.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	678	678	678	678	678	
5°	681	702	681	552	681	65
15°	650	696	650	581	650	183
25°	573	649	573	568	573	263
35°	436	579	436	494	436	269
45°	281	477	281	419	281	225
55°	229	352	229	344	229	210
65°	159	212	159	237	159	152
75°	60	101	60	121	60	63
85°	10	26	10	22	10	14
90°	6	23	6	23	6	5
95°	57	262	57	262	57	64
105°	205	1783	205	1783	205	217
115°	364	2296	364	2296	364	360
125°	507	1828	507	1828	507	450
135°	604	1419	604	1419	604	467
145°	701	1151	701	1151	701	439
155°	792	991	792	991	792	364
165°	855	923	855	923	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°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	683.6	683.6	687.4	688.7	688.7	686.8	684.9	686.8	692.6	694.5	693.8
5°	681.0	686.2	693.2	694.5	695.8	695.2	693.8	695.2	701.6	702.8	703.5
7.5°	675.9	685.5	694.5	696.4	698.3	696.4	695.8	697.1	703.5	704.7	704.7
10°	669.5	682.9	693.2	694.5	696.4	694.5	694.5	697.1	703.5	704.7	705.4
12.5°	660.5	679.1	688.7	690.0	692.6	691.9	691.3	693.8	700.3	701.6	701.6
15°	650.2	672.0	681.0	682.3	686.8	685.5	685.5	688.1	695.2	697.1	696.4
17.5°	636.2	663.1	673.4	675.3	678.5	677.8	678.5	681.0	687.4	688.7	689.4
20°	620.1	650.9	663.1	665.0	668.2	668.2	668.2	671.4	677.8	680.4	680.4
22.5°	598.3	638.1	650.9	652.2	656.0	656.0	657.3	661.8	667.5	668.2	668.2
25°	572.7	623.9	634.8	638.7	642.6	644.5	646.4	649.0	650.9	650.2	650.9
27.5°	545.7	606.0	620.1	622.7	627.8	629.7	632.3	632.9	633.6	635.5	634.2
30°	515.6	581.0	602.1	604.7	613.0	614.4	611.8	613.0	616.3	617.5	618.8
32.5°	481.6	543.8	583.6	589.3	597.0	593.2	592.6	594.5	599.6	599.6	600.9
35°	435.5	514.9	566.3	571.4	577.2	572.7	575.2	575.8	579.1	581.0	580.3
37.5°	384.8	490.0	548.3	552.1	556.6	550.9	554.7	556.6	559.2	557.9	557.9
40°	339.8	450.8	527.1	529.7	533.6	529.1	532.9	534.2	535.5	534.2	533.6
42.5°	306.6	407.8	504.7	507.9	505.3	508.5	509.8	512.4	510.4	507.9	507.9
45°	280.8	396.3	480.3	484.1	480.3	485.5	487.4	487.4	481.6	480.3	479.6
47.5°	272.5	373.2	455.9	455.9	454.0	460.4	463.7	459.2	453.4	451.4	451.4
50°	271.9	347.6	422.6	420.1	429.0	436.7	433.5	429.0	424.5	417.5	417.5
52.5°	246.9	316.1	379.6	389.3	403.3	407.8	402.7	398.3	390.5	387.4	384.8
55°	228.9	283.4	340.5	359.7	374.5	380.3	370.6	366.1	354.7	352.7	351.4
57.5°	225.1	236.0	304.6	328.9	346.9	346.3	340.5	332.2	322.5	320.6	320.0
60°	206.5	170.6	266.1	295.0	313.5	311.6	306.6	298.8	289.8	288.6	287.3
62.5°	187.2	123.7	222.5	255.2	281.5	280.8	276.4	264.9	258.5	255.2	252.6
65°	159.0	103.8	158.4	212.3	250.1	251.4	241.7	233.4	226.3	222.5	221.8
67.5°	121.2	84.6	107.1	177.0	219.9	218.7	206.5	202.6	193.6	191.7	187.9
70°	89.8	56.4	74.4	143.6	190.5	187.2	177.7	173.2	164.8	160.4	157.8
72.5°	74.4	45.5	54.5	111.6	160.4	156.4	148.1	143.0	136.0	132.1	129.6
75°	60.2	48.1	41.7	82.7	130.1	127.7	119.9	114.7	109.0	103.8	104.5
77.5°	44.3	44.8	33.4	60.9	103.3	99.4	94.9	88.5	86.0	80.8	80.8
80°	33.4	35.3	25.1	41.7	74.4	74.4	70.6	66.1	61.6	59.0	59.0
82.5°	22.5	22.5	18.6	26.3	50.7	48.8	46.2	44.8	42.4	41.0	41.0
85°	10.2	12.8	11.6	16.1	27.5	28.9	28.9	27.5	27.0	25.6	26.3
87.5°	3.3	5.7	7.1	9.0	14.2	14.7	15.4	15.4	15.4	16.1	16.1
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°	23.8	64.4	105.0	115.1	161.8	224.0	255.2	223.7	160.6	113.3	108.8
95°	57.3	131.5	205.7	224.2	398.2	630.1	746.1	665.8	505.2	384.7	371.0
97.5°	99.0	164.5	230.0	246.3	536.3	923.1	1116.5	1065.7	964.1	888.0	862.0
100°	131.2	190.6	249.9	264.8	586.6	1015.8	1230.3	1234.1	1241.5	1247.1	1216.1
102.5°	158.6	214.1	269.5	283.3	609.8	1044.9	1262.6	1327.2	1456.6	1553.6	1527.1
105°	205.2	252.1	299.0	310.8	626.8	1048.2	1258.9	1403.9	1693.9	1911.4	1897.2
107.5°	252.9	296.6	340.4	351.3	630.0	1001.6	1187.4	1389.6	1794.1	2097.5	2100.9
110°	285.0	324.5	364.1	374.0	625.3	960.2	1127.7	1353.9	1806.1	2145.2	2160.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.7	354.4	392.0	401.4	625.4	924.2	1073.5	1304.9	1767.7	2114.8	2137.6
115°	364.4	399.1	433.8	442.5	631.2	882.8	1008.5	1231.4	1677.3	2011.6	2043.3
117.5°	411.5	443.1	474.7	482.5	642.9	856.8	963.7	1164.9	1567.3	1869.1	1904.2
120°	438.9	468.6	498.3	505.7	652.4	848.0	945.9	1129.6	1497.3	1773.1	1807.1
122.5°	465.8	495.7	525.7	533.2	666.2	843.6	932.2	1097.7	1428.7	1677.1	1710.6
125°	507.0	534.2	561.6	568.4	684.6	839.7	917.3	1057.8	1339.1	1550.0	1581.0
127.5°	540.3	567.9	595.4	602.3	703.1	837.5	904.7	1025.5	1267.0	1448.1	1474.2
130°	558.2	587.9	617.5	625.0	716.7	838.9	900.0	1007.4	1222.4	1383.6	1407.7
132.5°	576.7	606.4	636.1	643.5	727.6	839.7	895.8	992.0	1184.4	1328.7	1350.3
135°	604.1	631.2	658.1	664.9	739.5	838.9	888.6	969.2	1130.3	1251.2	1269.8
137.5°	632.1	658.9	685.7	692.4	757.4	844.1	887.4	955.5	1091.8	1194.0	1209.2
140°	655.5	680.1	704.8	710.9	768.4	845.0	883.2	942.0	1059.7	1148.0	1162.3
142.5°	673.4	696.1	718.9	724.6	777.5	848.0	883.2	935.0	1038.3	1115.9	1128.1
145°	700.8	720.7	740.5	745.4	789.4	848.0	877.3	919.6	1004.1	1067.5	1076.8
147.5°	728.1	747.6	766.9	771.7	806.9	853.9	877.3	910.6	977.0	1027.0	1034.6
150°	746.1	763.6	781.0	785.4	816.0	856.8	877.3	905.4	961.5	1003.7	1009.9
152.5°	764.6	777.9	791.1	794.4	822.0	858.9	877.3	901.3	949.3	985.3	989.9
155°	792.0	801.9	811.6	814.1	835.1	863.3	877.3	896.4	934.6	963.2	966.3
157.5°	812.3	821.8	831.3	833.7	848.2	867.6	877.3	892.1	921.8	944.0	946.2
160°	826.0	833.4	840.9	842.7	854.3	869.7	877.3	890.0	915.5	934.5	935.7
162.5°	839.7	845.3	850.8	852.3	860.6	871.8	877.3	888.0	909.5	925.6	926.7
165°	854.6	859.6	864.7	865.9	869.8	874.8	877.3	885.0	900.4	911.8	913.1
167.5°	868.3	870.7	873.1	873.7	876.8	881.1	883.2	888.3	898.3	905.9	906.5
170°	877.3	879.7	882.1	882.7	882.9	883.1	883.2	888.3	898.3	905.9	905.9
172.5°	882.1	882.6	883.1	883.2	883.2	883.2	883.2	887.3	895.2	901.1	900.6
175°	888.6	888.6	888.6	888.6	886.8	884.4	883.2	885.7	890.8	894.6	894.6
177.5°	888.6	888.6	888.6	888.6	887.3	885.4	884.5	886.5	890.4	893.4	892.8
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	695.2	693.2	695.2	693.8	694.5	692.6	686.8	684.9	686.8	688.7	688.7
5°	703.5	702.2	703.5	703.5	702.8	701.6	695.2	693.8	695.2	695.8	694.5
7.5°	706.1	704.1	706.1	704.7	704.7	703.5	697.1	695.8	696.4	698.3	696.4
10°	706.1	704.1	706.1	705.4	704.7	703.5	697.1	694.5	694.5	696.4	694.5
12.5°	702.8	701.6	702.8	701.6	701.6	700.3	693.8	691.3	691.9	692.6	690.0
15°	697.7	695.8	697.7	696.4	697.1	695.2	688.1	685.5	685.5	686.8	682.3
17.5°	690.0	687.4	690.0	689.4	688.7	687.4	681.0	678.5	677.8	678.5	675.3
20°	681.0	679.1	681.0	680.4	680.4	677.8	671.4	668.2	668.2	668.2	665.0
22.5°	666.9	665.0	666.9	668.2	668.2	667.5	661.8	657.3	656.0	656.0	652.2
25°	650.9	649.0	650.9	650.9	650.2	650.9	649.0	646.4	644.5	642.6	638.7
27.5°	635.5	634.2	635.5	634.2	635.5	633.6	632.9	632.3	629.7	627.8	622.7
30°	620.1	618.8	620.1	618.8	617.5	616.3	613.0	611.8	614.4	613.0	604.7
32.5°	600.9	599.6	600.9	600.9	599.6	599.6	594.5	592.6	593.2	597.0	589.3
35°	581.0	579.1	581.0	580.3	581.0	579.1	575.8	575.2	572.7	577.2	571.4
37.5°	557.9	556.0	557.9	557.9	557.9	559.2	556.6	554.7	550.9	556.6	552.1
40°	534.2	531.6	534.2	533.6	534.2	535.5	534.2	532.9	529.1	533.6	529.7
42.5°	507.3	506.6	507.3	507.9	507.9	510.4	512.4	509.8	508.5	505.3	507.9
45°	478.4	477.1	478.4	479.6	480.3	481.6	487.4	487.4	485.5	480.3	484.1
47.5°	447.6	444.4	447.6	451.4	451.4	453.4	459.2	463.7	460.4	454.0	455.9
50°	414.9	415.6	414.9	417.5	417.5	424.5	429.0	433.5	436.7	429.0	420.1
52.5°	382.9	382.2	382.9	384.8	387.4	390.5	398.3	402.7	407.8	403.3	389.3
55°	350.7	352.1	350.7	351.4	352.7	354.7	366.1	370.6	380.3	374.5	359.7
57.5°	318.7	316.8	318.7	320.0	320.6	322.5	332.2	340.5	346.3	346.9	328.9
60°	281.5	278.9	281.5	287.3	288.6	289.8	298.8	306.6	311.6	313.5	295.0
62.5°	248.8	244.3	248.8	252.6	255.2	258.5	264.9	276.4	280.8	281.5	255.2
65°	214.2	212.3	214.2	221.8	222.5	226.3	233.4	241.7	251.4	250.1	212.3
67.5°	182.7	182.7	182.7	187.9	191.7	193.6	202.6	206.5	218.7	219.9	177.0
70°	153.9	153.3	153.9	157.8	160.4	164.8	173.2	177.7	187.2	190.5	143.6
72.5°	126.3	125.6	126.3	129.6	132.1	136.0	143.0	148.1	156.4	160.4	111.6
75°	101.9	100.7	101.9	104.5	103.8	109.0	114.7	119.9	127.7	130.1	82.7
77.5°	78.2	78.2	78.2	80.8	80.8	86.0	88.5	94.9	99.4	103.3	60.9
80°	58.3	57.8	58.3	59.0	59.0	61.6	66.1	70.6	74.4	74.4	41.7
82.5°	41.0	39.8	41.0	41.0	41.0	42.4	44.8	46.2	48.8	50.7	26.3
85°	25.6	25.6	25.6	26.3	25.6	27.0	27.5	28.9	28.9	27.5	16.1
87.5°	16.6	16.1	16.6	16.1	16.1	15.4	15.4	15.4	14.7	14.2	9.0
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	255.2	224.0	161.8	115.1
95°	316.4	261.8	316.4	371.0	384.7	505.2	665.8	746.1	630.1	398.2	224.2
97.5°	758.2	654.2	758.2	862.0	888.0	964.1	1065.7	1116.5	923.1	536.3	246.3
100°	1092.4	968.5	1092.4	1216.1	1247.1	1241.5	1234.1	1230.3	1015.8	586.6	264.8
102.5°	1421.1	1315.1	1421.1	1527.1	1553.6	1456.6	1327.2	1262.6	1044.9	609.8	283.3
105°	1840.2	1783.2	1840.2	1897.2	1911.4	1693.9	1403.9	1258.9	1048.2	626.8	310.8
107.5°	2114.7	2128.5	2114.7	2100.9	2097.5	1794.1	1389.6	1187.4	1001.6	630.0	351.3
110°	2219.4	2278.8	2219.4	2160.0	2145.2	1806.1	1353.9	1127.7	960.2	625.3	374.0



TEST NUMBER: P935836

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2228.8	2319.9	2228.8	2137.6	2114.8	1767.7	1304.9	1073.5	924.2	625.4	401.4
115°	2169.7	2296.1	2169.7	2043.3	2011.6	1677.3	1231.4	1008.5	882.8	631.2	442.5
117.5°	2044.3	2184.5	2044.3	1904.2	1869.1	1567.3	1164.9	963.7	856.8	642.9	482.5
120°	1943.4	2079.6	1943.4	1807.1	1773.1	1497.3	1129.6	945.9	848.0	652.4	505.7
122.5°	1845.1	1979.4	1845.1	1710.6	1677.1	1428.7	1097.7	932.2	843.6	666.2	533.2
125°	1704.7	1828.5	1704.7	1581.0	1550.0	1339.1	1057.8	917.3	839.7	684.6	568.4
127.5°	1578.6	1683.0	1578.6	1474.2	1448.1	1267.0	1025.5	904.7	837.5	703.1	602.3
130°	1504.2	1600.7	1504.2	1407.7	1383.6	1222.4	1007.4	900.0	838.9	716.7	625.0
132.5°	1436.7	1523.1	1436.7	1350.3	1328.7	1184.4	992.0	895.8	839.7	727.6	643.5
135°	1344.3	1418.8	1344.3	1269.8	1251.2	1130.3	969.2	888.6	838.9	739.5	664.9
137.5°	1270.2	1331.1	1270.2	1209.2	1194.0	1091.8	955.5	887.4	844.1	757.4	692.4
140°	1219.2	1276.2	1219.2	1162.3	1148.0	1059.7	942.0	883.2	845.0	768.4	710.9
142.5°	1177.2	1226.1	1177.2	1128.1	1115.9	1038.3	935.0	883.2	848.0	777.5	724.6
145°	1114.0	1151.1	1114.0	1076.8	1067.5	1004.1	919.6	877.3	848.0	789.4	745.4
147.5°	1065.4	1096.2	1065.4	1034.6	1027.0	977.0	910.6	877.3	853.9	806.9	771.7
150°	1034.9	1059.7	1034.9	1009.9	1003.7	961.5	905.4	877.3	856.8	816.0	785.4
152.5°	1008.8	1027.5	1008.8	989.9	985.3	949.3	901.3	877.3	858.9	822.0	794.4
155°	978.8	991.2	978.8	966.3	963.2	934.6	896.4	877.3	863.3	835.1	814.1
157.5°	954.9	963.7	954.9	946.2	944.0	921.8	892.1	877.3	867.6	848.2	833.7
160°	940.8	945.9	940.8	935.7	934.5	915.5	890.0	877.3	869.7	854.3	842.7
162.5°	931.5	936.3	931.5	926.7	925.6	909.5	888.0	877.3	871.8	860.6	852.3
165°	918.1	923.2	918.1	913.1	911.8	900.4	885.0	877.3	874.8	869.8	865.9
167.5°	908.6	910.7	908.6	906.5	905.9	898.3	888.3	883.2	881.1	876.8	873.7
170°	905.9	905.9	905.9	905.9	905.9	898.3	888.3	883.2	883.1	882.9	882.7
172.5°	898.8	897.0	898.8	900.6	901.1	895.2	887.3	883.2	883.2	883.2	883.2
175°	894.6	894.6	894.6	894.6	894.6	890.8	885.7	883.2	884.4	886.8	888.6
177.5°	890.7	888.6	890.7	892.8	893.4	890.4	886.5	884.5	885.4	887.3	888.6
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



TEST NUMBER: P935836

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	687.4	683.6	683.6	677.2	674.6	672.7	669.5	659.9	657.3	654.7	658.6
5°	693.2	686.2	681.0	669.5	659.9	656.0	643.8	620.8	605.4	593.8	587.4
7.5°	694.5	685.5	675.9	658.0	634.8	624.6	587.4	545.1	533.6	523.3	516.8
10°	693.2	682.9	669.5	642.6	588.1	570.1	532.9	505.3	498.3	496.4	498.3
12.5°	688.7	679.1	660.5	615.6	539.3	527.1	505.3	489.3	488.0	491.2	508.5
15°	681.0	672.0	650.2	579.7	512.4	503.4	488.0	482.2	489.3	511.8	563.7
17.5°	673.4	663.1	636.2	544.5	491.9	485.5	474.6	486.1	525.8	556.0	573.3
20°	663.1	650.9	620.1	518.8	477.1	471.3	466.2	518.2	548.3	559.2	568.8
22.5°	650.9	638.1	598.3	500.9	461.7	457.3	460.4	536.1	548.3	556.0	564.3
25°	634.8	623.9	572.7	486.7	449.5	444.4	456.6	534.2	541.2	543.1	559.9
27.5°	620.1	606.0	545.7	473.9	434.8	432.9	459.8	525.8	531.0	532.9	550.9
30°	602.1	581.0	515.6	460.4	419.4	418.7	460.4	515.6	514.3	519.4	537.4
32.5°	583.6	543.8	481.6	443.8	404.7	404.0	455.9	500.2	498.9	505.9	519.4
35°	566.3	514.9	435.5	424.5	386.0	386.7	445.0	482.2	482.9	489.3	497.6
37.5°	548.3	490.0	384.8	403.3	368.1	368.1	430.3	465.6	464.3	466.2	477.7
40°	527.1	450.8	339.8	375.8	351.4	349.5	412.3	447.6	443.1	442.5	458.5
42.5°	504.7	407.8	306.6	339.3	332.2	329.6	390.5	425.8	417.5	419.4	439.9
45°	480.3	396.3	280.8	286.7	312.3	310.4	366.8	400.8	395.0	400.2	421.3
47.5°	455.9	373.2	272.5	237.9	291.2	290.5	340.5	376.5	373.2	378.4	400.8
50°	422.6	347.6	271.9	204.0	267.4	269.9	309.1	352.7	352.7	357.2	380.9
52.5°	379.6	316.1	246.9	184.6	239.8	247.6	281.5	332.2	333.4	337.9	359.1
55°	340.5	283.4	228.9	169.9	207.1	223.8	254.5	311.0	313.5	318.0	337.3
57.5°	304.6	236.0	225.1	152.6	177.0	193.1	230.8	290.5	291.7	295.7	314.2
60°	266.1	170.6	206.5	134.1	150.7	162.8	209.0	266.1	270.6	273.2	289.2
62.5°	222.5	123.7	187.2	121.2	137.9	140.5	191.1	243.1	248.8	250.7	260.4
65°	158.4	103.8	159.0	110.3	124.4	125.1	171.8	219.4	224.4	227.7	234.7
67.5°	107.1	84.6	121.2	100.0	114.2	114.7	153.3	191.7	198.8	201.4	205.9
70°	74.4	56.4	89.8	89.1	102.6	103.8	133.4	166.8	173.2	175.1	177.7
72.5°	54.5	45.5	74.4	80.1	90.5	91.7	112.8	138.6	145.0	146.9	148.1
75°	41.7	48.1	60.2	69.9	77.0	77.5	92.4	112.8	117.3	118.7	119.2
77.5°	33.4	44.8	44.3	56.4	62.8	61.6	72.5	87.2	91.0	91.0	91.0
80°	25.1	35.3	33.4	40.4	46.2	44.8	51.9	62.2	63.5	64.7	64.2
82.5°	18.6	22.5	22.5	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.7
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.5	22.5	21.1
87.5°	7.1	5.7	3.3	5.2	7.6	7.6	9.0	9.7	9.0	9.0	9.0
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	23.8	64.4	105.0	115.1	161.8	224.0	255.2	223.7	160.6
95°	205.7	131.5	57.3	131.5	205.7	224.2	398.2	630.1	746.1	665.8	505.2
97.5°	230.0	164.5	99.0	164.5	230.0	246.3	536.3	923.1	1116.5	1065.7	964.1
100°	249.9	190.6	131.2	190.6	249.9	264.8	586.6	1015.8	1230.3	1234.1	1241.5
102.5°	269.5	214.1	158.6	214.1	269.5	283.3	609.8	1044.9	1262.6	1327.2	1456.6
105°	299.0	252.1	205.2	252.1	299.0	310.8	626.8	1048.2	1258.9	1403.9	1693.9
107.5°	340.4	296.6	252.9	296.6	340.4	351.3	630.0	1001.6	1187.4	1389.6	1794.1
110°	364.1	324.5	285.0	324.5	364.1	374.0	625.3	960.2	1127.7	1353.9	1806.1



TEST NUMBER: P935836

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	392.0	354.4	316.7	354.4	392.0	401.4	625.4	924.2	1073.5	1304.9	1767.7
115°	433.8	399.1	364.4	399.1	433.8	442.5	631.2	882.8	1008.5	1231.4	1677.3
117.5°	474.7	443.1	411.5	443.1	474.7	482.5	642.9	856.8	963.7	1164.9	1567.3
120°	498.3	468.6	438.9	468.6	498.3	505.7	652.4	848.0	945.9	1129.6	1497.3
122.5°	525.7	495.7	465.8	495.7	525.7	533.2	666.2	843.6	932.2	1097.7	1428.7
125°	561.6	534.2	507.0	534.2	561.6	568.4	684.6	839.7	917.3	1057.8	1339.1
127.5°	595.4	567.9	540.3	567.9	595.4	602.3	703.1	837.5	904.7	1025.5	1267.0
130°	617.5	587.9	558.2	587.9	617.5	625.0	716.7	838.9	900.0	1007.4	1222.4
132.5°	636.1	606.4	576.7	606.4	636.1	643.5	727.6	839.7	895.8	992.0	1184.4
135°	658.1	631.2	604.1	631.2	658.1	664.9	739.5	838.9	888.6	969.2	1130.3
137.5°	685.7	658.9	632.1	658.9	685.7	692.4	757.4	844.1	887.4	955.5	1091.8
140°	704.8	680.1	655.5	680.1	704.8	710.9	768.4	845.0	883.2	942.0	1059.7
142.5°	718.9	696.1	673.4	696.1	718.9	724.6	777.5	848.0	883.2	935.0	1038.3
145°	740.5	720.7	700.8	720.7	740.5	745.4	789.4	848.0	877.3	919.6	1004.1
147.5°	766.9	747.6	728.1	747.6	766.9	771.7	806.9	853.9	877.3	910.6	977.0
150°	781.0	763.6	746.1	763.6	781.0	785.4	816.0	856.8	877.3	905.4	961.5
152.5°	791.1	777.9	764.6	777.9	791.1	794.4	822.0	858.9	877.3	901.3	949.3
155°	811.6	801.9	792.0	801.9	811.6	814.1	835.1	863.3	877.3	896.4	934.6
157.5°	831.3	821.8	812.3	821.8	831.3	833.7	848.2	867.6	877.3	892.1	921.8
160°	840.9	833.4	826.0	833.4	840.9	842.7	854.3	869.7	877.3	890.0	915.5
162.5°	850.8	845.3	839.7	845.3	850.8	852.3	860.6	871.8	877.3	888.0	909.5
165°	864.7	859.6	854.6	859.6	864.7	865.9	869.8	874.8	877.3	885.0	900.4
167.5°	873.1	870.7	868.3	870.7	873.1	873.7	876.8	881.1	883.2	888.3	898.3
170°	882.1	879.7	877.3	879.7	882.1	882.7	882.9	883.1	883.2	888.3	898.3
172.5°	883.1	882.6	882.1	882.6	883.1	883.2	883.2	883.2	883.2	887.3	895.2
175°	888.6	888.6	888.6	888.6	888.6	888.6	886.8	884.4	883.2	885.7	890.8
177.5°	888.6	888.6	888.6	888.6	888.6	888.6	887.3	885.4	884.5	886.5	890.4
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



TEST NUMBER: P935836

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	654.1	652.2	654.7	647.7	654.7	652.2	654.1	658.6	654.7	657.3	659.9
5°	573.9	570.8	560.5	552.1	560.5	570.8	573.9	587.4	593.8	605.4	620.8
7.5°	513.0	510.4	507.9	502.8	507.9	510.4	513.0	516.8	523.3	533.6	545.1
10°	499.5	500.2	504.0	503.4	504.0	500.2	499.5	498.3	496.4	498.3	505.3
12.5°	534.2	540.0	561.1	559.9	561.1	540.0	534.2	508.5	491.2	488.0	489.3
15°	573.9	575.8	580.3	581.0	580.3	575.8	573.9	563.7	511.8	489.3	482.2
17.5°	577.8	578.4	581.7	581.7	581.7	578.4	577.8	573.3	556.0	525.8	486.1
20°	574.6	575.8	582.3	583.6	582.3	575.8	574.6	568.8	559.2	548.3	518.2
22.5°	573.3	575.8	581.0	580.3	581.0	575.8	573.3	564.3	556.0	548.3	536.1
25°	566.9	566.9	567.5	568.2	567.5	566.9	566.9	559.9	543.1	541.2	534.2
27.5°	553.4	554.7	558.5	557.9	558.5	554.7	553.4	550.9	532.9	531.0	525.8
30°	541.2	540.0	536.7	534.2	536.7	540.0	541.2	537.4	519.4	514.3	515.6
32.5°	520.7	517.5	514.3	512.4	514.3	517.5	520.7	519.4	505.9	498.9	500.2
35°	496.4	497.0	496.4	494.4	496.4	497.0	496.4	497.6	489.3	482.9	482.2
37.5°	479.1	480.3	479.6	477.1	479.6	480.3	479.1	477.7	466.2	464.3	465.6
40°	461.1	461.7	461.1	459.2	461.1	461.7	461.1	458.5	442.5	443.1	447.6
42.5°	443.8	443.1	441.2	439.9	441.2	443.1	443.8	439.9	419.4	417.5	425.8
45°	423.9	424.5	420.6	418.7	420.6	424.5	423.9	421.3	400.2	395.0	400.8
47.5°	404.0	404.0	400.8	398.8	400.8	404.0	404.0	400.8	378.4	373.2	376.5
50°	382.9	382.2	377.7	377.0	377.7	382.2	382.9	380.9	357.2	352.7	352.7
52.5°	358.5	358.5	359.1	360.4	359.1	358.5	358.5	359.1	337.9	333.4	332.2
55°	337.3	337.9	342.4	343.8	342.4	337.9	337.3	337.3	318.0	313.5	311.0
57.5°	315.5	315.5	318.7	318.7	318.7	315.5	315.5	314.2	295.7	291.7	290.5
60°	290.5	291.7	294.3	293.7	294.3	291.7	290.5	289.2	273.2	270.6	266.1
62.5°	264.2	265.5	266.1	264.9	266.1	265.5	264.2	260.4	250.7	248.8	243.1
65°	236.7	237.9	238.6	237.2	238.6	237.9	236.7	234.7	227.7	224.4	219.4
67.5°	208.5	207.8	207.1	209.7	207.1	207.8	208.5	205.9	201.4	198.8	191.7
70°	179.6	179.6	178.9	180.2	178.9	179.6	179.6	177.7	175.1	173.2	166.8
72.5°	148.8	148.1	150.7	148.8	150.7	148.1	148.8	148.1	146.9	145.0	138.6
75°	118.7	119.9	118.7	120.6	118.7	119.9	118.7	119.2	118.7	117.3	112.8
77.5°	90.5	91.7	90.5	90.5	90.5	91.7	90.5	91.0	91.0	91.0	87.2
80°	64.2	63.5	63.5	62.8	63.5	63.5	64.2	64.2	64.7	63.5	62.2
82.5°	41.0	40.4	40.4	41.7	40.4	40.4	41.0	41.7	40.4	40.4	40.4
85°	22.5	23.0	21.8	21.8	21.8	23.0	22.5	21.1	22.5	22.5	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.7
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	255.2	224.0
95°	384.7	371.0	316.4	261.8	316.4	371.0	384.7	505.2	665.8	746.1	630.1
97.5°	888.0	862.0	758.2	654.2	758.2	862.0	888.0	964.1	1065.7	1116.5	923.1
100°	1247.1	1216.1	1092.4	968.5	1092.4	1216.1	1247.1	1241.5	1234.1	1230.3	1015.8
102.5°	1553.6	1527.1	1421.1	1315.1	1421.1	1527.1	1553.6	1456.6	1327.2	1262.6	1044.9
105°	1911.4	1897.2	1840.2	1783.2	1840.2	1897.2	1911.4	1693.9	1403.9	1258.9	1048.2
107.5°	2097.5	2100.9	2114.7	2128.5	2114.7	2100.9	2097.5	1794.1	1389.6	1187.4	1001.6
110°	2145.2	2160.0	2219.4	2278.8	2219.4	2160.0	2145.2	1806.1	1353.9	1127.7	960.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2114.8	2137.6	2228.8	2319.9	2228.8	2137.6	2114.8	1767.7	1304.9	1073.5	924.2
115°	2011.6	2043.3	2169.7	2296.1	2169.7	2043.3	2011.6	1677.3	1231.4	1008.5	882.8
117.5°	1869.1	1904.2	2044.3	2184.5	2044.3	1904.2	1869.1	1567.3	1164.9	963.7	856.8
120°	1773.1	1807.1	1943.4	2079.6	1943.4	1807.1	1773.1	1497.3	1129.6	945.9	848.0
122.5°	1677.1	1710.6	1845.1	1979.4	1845.1	1710.6	1677.1	1428.7	1097.7	932.2	843.6
125°	1550.0	1581.0	1704.7	1828.5	1704.7	1581.0	1550.0	1339.1	1057.8	917.3	839.7
127.5°	1448.1	1474.2	1578.6	1683.0	1578.6	1474.2	1448.1	1267.0	1025.5	904.7	837.5
130°	1383.6	1407.7	1504.2	1600.7	1504.2	1407.7	1383.6	1222.4	1007.4	900.0	838.9
132.5°	1328.7	1350.3	1436.7	1523.1	1436.7	1350.3	1328.7	1184.4	992.0	895.8	839.7
135°	1251.2	1269.8	1344.3	1418.8	1344.3	1269.8	1251.2	1130.3	969.2	888.6	838.9
137.5°	1194.0	1209.2	1270.2	1331.1	1270.2	1209.2	1194.0	1091.8	955.5	887.4	844.1
140°	1148.0	1162.3	1219.2	1276.2	1219.2	1162.3	1148.0	1059.7	942.0	883.2	845.0
142.5°	1115.9	1128.1	1177.2	1226.1	1177.2	1128.1	1115.9	1038.3	935.0	883.2	848.0
145°	1067.5	1076.8	1114.0	1151.1	1114.0	1076.8	1067.5	1004.1	919.6	877.3	848.0
147.5°	1027.0	1034.6	1065.4	1096.2	1065.4	1034.6	1027.0	977.0	910.6	877.3	853.9
150°	1003.7	1009.9	1034.9	1059.7	1034.9	1009.9	1003.7	961.5	905.4	877.3	856.8
152.5°	985.3	989.9	1008.8	1027.5	1008.8	989.9	985.3	949.3	901.3	877.3	858.9
155°	963.2	966.3	978.8	991.2	978.8	966.3	963.2	934.6	896.4	877.3	863.3
157.5°	944.0	946.2	954.9	963.7	954.9	946.2	944.0	921.8	892.1	877.3	867.6
160°	934.5	935.7	940.8	945.9	940.8	935.7	934.5	915.5	890.0	877.3	869.7
162.5°	925.6	926.7	931.5	936.3	931.5	926.7	925.6	909.5	888.0	877.3	871.8
165°	911.8	913.1	918.1	923.2	918.1	913.1	911.8	900.4	885.0	877.3	874.8
167.5°	905.9	906.5	908.6	910.7	908.6	906.5	905.9	898.3	888.3	883.2	881.1
170°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	898.3	888.3	883.2	883.1
172.5°	901.1	900.6	898.8	897.0	898.8	900.6	901.1	895.2	887.3	883.2	883.2
175°	894.6	894.6	894.6	894.6	894.6	894.6	894.6	890.8	885.7	883.2	884.4
177.5°	893.4	892.8	890.7	888.6	890.7	892.8	893.4	890.4	886.5	884.5	885.4
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.8	677.8	677.8	677.8	677.8
2.5°	669.5	672.7	674.6	677.2	683.6
5°	643.8	656.0	659.9	669.5	681.0
7.5°	587.4	624.6	634.8	658.0	675.9
10°	532.9	570.1	588.1	642.6	669.5
12.5°	505.3	527.1	539.3	615.6	660.5
15°	488.0	503.4	512.4	579.7	650.2
17.5°	474.6	485.5	491.9	544.5	636.2
20°	466.2	471.3	477.1	518.8	620.1
22.5°	460.4	457.3	461.7	500.9	598.3
25°	456.6	444.4	449.5	486.7	572.7
27.5°	459.8	432.9	434.8	473.9	545.7
30°	460.4	418.7	419.4	460.4	515.6
32.5°	455.9	404.0	404.7	443.8	481.6
35°	445.0	386.7	386.0	424.5	435.5
37.5°	430.3	368.1	368.1	403.3	384.8
40°	412.3	349.5	351.4	375.8	339.8
42.5°	390.5	329.6	332.2	339.3	306.6
45°	366.8	310.4	312.3	286.7	280.8
47.5°	340.5	290.5	291.2	237.9	272.5
50°	309.1	269.9	267.4	204.0	271.9
52.5°	281.5	247.6	239.8	184.6	246.9
55°	254.5	223.8	207.1	169.9	228.9
57.5°	230.8	193.1	177.0	152.6	225.1
60°	209.0	162.8	150.7	134.1	206.5
62.5°	191.1	140.5	137.9	121.2	187.2
65°	171.8	125.1	124.4	110.3	159.0
67.5°	153.3	114.7	114.2	100.0	121.2
70°	133.4	103.8	102.6	89.1	89.8
72.5°	112.8	91.7	90.5	80.1	74.4
75°	92.4	77.5	77.0	69.9	60.2
77.5°	72.5	61.6	62.8	56.4	44.3
80°	51.9	44.8	46.2	40.4	33.4
82.5°	34.6	29.5	30.8	25.6	22.5
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.3
90°	26.3	16.7	15.5	10.7	5.9
92.5°	161.8	115.1	105.0	64.4	23.8
95°	398.2	224.2	205.7	131.5	57.3
97.5°	536.3	246.3	230.0	164.5	99.0
100°	586.6	264.8	249.9	190.6	131.2
102.5°	609.8	283.3	269.5	214.1	158.6
105°	626.8	310.8	299.0	252.1	205.2
107.5°	630.0	351.3	340.4	296.6	252.9
110°	625.3	374.0	364.1	324.5	285.0



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CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	625.4	401.4	392.0	354.4	316.7
115°	631.2	442.5	433.8	399.1	364.4
117.5°	642.9	482.5	474.7	443.1	411.5
120°	652.4	505.7	498.3	468.6	438.9
122.5°	666.2	533.2	525.7	495.7	465.8
125°	684.6	568.4	561.6	534.2	507.0
127.5°	703.1	602.3	595.4	567.9	540.3
130°	716.7	625.0	617.5	587.9	558.2
132.5°	727.6	643.5	636.1	606.4	576.7
135°	739.5	664.9	658.1	631.2	604.1
137.5°	757.4	692.4	685.7	658.9	632.1
140°	768.4	710.9	704.8	680.1	655.5
142.5°	777.5	724.6	718.9	696.1	673.4
145°	789.4	745.4	740.5	720.7	700.8
147.5°	806.9	771.7	766.9	747.6	728.1
150°	816.0	785.4	781.0	763.6	746.1
152.5°	822.0	794.4	791.1	777.9	764.6
155°	835.1	814.1	811.6	801.9	792.0
157.5°	848.2	833.7	831.3	821.8	812.3
160°	854.3	842.7	840.9	833.4	826.0
162.5°	860.6	852.3	850.8	845.3	839.7
165°	869.8	865.9	864.7	859.6	854.6
167.5°	876.8	873.7	873.1	870.7	868.3
170°	882.9	882.7	882.1	879.7	877.3
172.5°	883.2	883.2	883.1	882.6	882.1
175°	886.8	888.6	888.6	888.6	888.6
177.5°	887.3	888.6	888.6	888.6	888.6
180°	888.6	888.6	888.6	888.6	888.6



TEST NUMBER: P935836
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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	7.97	8.64	9.13	9.78	11.39	10.77	11.43	11.93	12.58	14.18
	3H	8.43	9.03	9.60	10.18	11.80	12.09	12.68	13.25	13.84	15.46
	4H	8.62	9.18	9.79	10.33	11.96	12.52	13.08	13.69	14.23	15.86
	6H	8.72	9.24	9.90	10.40	12.03	12.78	13.30	13.96	14.46	16.09
	8H	8.72	9.21	9.90	10.38	12.01	12.85	13.34	14.03	14.51	16.14
	12H	8.68	9.15	9.87	10.32	11.97	12.88	13.34	14.06	14.51	16.16
4H	2H	8.97	9.54	10.15	10.69	12.31	11.16	11.72	12.34	12.87	14.50
	3H	9.98	10.45	11.16	11.63	13.27	12.63	13.10	13.82	14.28	15.92
	4H	10.25	10.68	11.43	11.85	13.50	13.15	13.58	14.33	14.74	16.40
	6H	10.36	10.73	11.55	11.92	13.57	13.49	13.86	14.68	15.05	16.69
	8H	10.36	10.71	11.55	11.89	13.55	13.59	13.93	14.78	15.11	16.78
	12H	10.32	10.64	11.53	11.82	13.49	13.63	13.94	14.84	15.13	16.80
8H	4H	10.68	11.03	11.87	12.21	13.87	13.26	13.60	14.44	14.78	16.44
	6H	10.93	11.22	12.14	12.44	14.10	13.68	13.96	14.88	15.18	16.84
	8H	10.97	11.22	12.19	12.42	14.10	13.82	14.07	15.03	15.27	16.95
	12H	10.95	11.17	12.17	12.36	14.07	13.90	14.12	15.12	15.32	17.03
12H	4H	10.68	10.99	11.88	12.18	13.85	13.21	13.52	14.42	14.71	16.38
	6H	10.99	11.24	12.20	12.44	14.12	13.67	13.92	14.88	15.12	16.80
	8H	11.05	11.27	12.27	12.46	14.17	13.82	14.04	15.03	15.23	16.94