

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: P935838

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935838
REPORT IS A COMBINATION OF REPORTS P933771 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-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

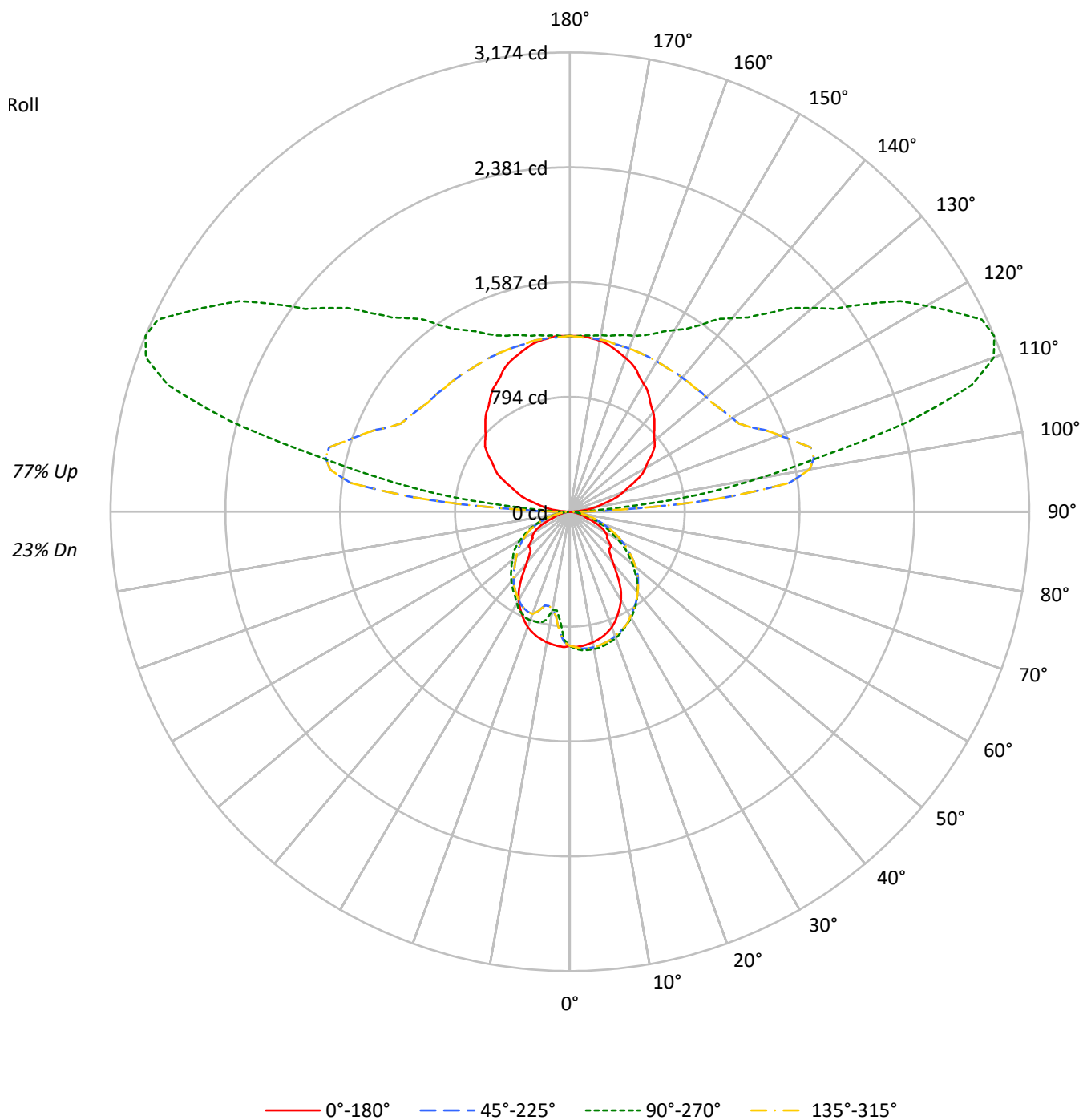
Lumens per Lamp: N/A
Luminaire Lumens: 10289.1 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 83.4
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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CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3000K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23		
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20		
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17		
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14		
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12		
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10		
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9		
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8		
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7		
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6		
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5777	5790	5777	4553
10°	5736	5704	5736	4078
15°	5672	5580	5672	4660
20°	5551	5434	5551	4669
25°	5305	5220	5305	4570
30°	4990	5043	4990	4353
35°	4447	4819	4447	4114
40°	3703	4555	3703	3934
45°	3306	4245	3306	3726
50°	3509	3878	3509	3518
55°	3298	3480	3298	3398
60°	3397	2956	3397	3112
65°	3075	2444	3075	2731
70°	2124	1947	2124	2289
75°	1856	1439	1856	1723
80°	1484	951	1484	1037
85°	835	504	835	428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	0.8
10°-20°	237.6	2.3
20°-30°	367.4	3.6
30°-40°	438.6	4.3
40°-50°	441.1	4.3
50°-60°	383.8	3.7
60°-70°	272.1	2.6
70°-80°	144.0	1.4
80°-90°	40.5	0.4
90°-100°	592.6	5.8
100°-110°	1557.8	15.1
110°-120°	1615.3	15.7
120°-130°	1295.7	12.6
130°-140°	1016.6	9.9
140°-150°	780.3	7.6
150°-160°	561.9	5.5
160°-170°	343.8	3.3
170°-180°	116.2	1.1
0°-30°	688.7	6.7
0°-40°	1127.3	11.0
0°-60°	1952.2	19.0
0°-90°	2408.8	23.4
90°-120°	3765.7	36.6
90°-150°	6858.3	66.7
90°-180°	7880.0	76.6
0°-180°	10289.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	927	927	927	927	927	
5°	932	960	932	755	932	88
15°	890	952	890	795	890	250
25°	783	888	783	777	783	360
35°	596	792	596	676	596	369
45°	384	653	384	573	384	308
55°	313	482	313	470	313	288
65°	218	290	218	325	218	208
75°	82	138	82	165	82	87
85°	14	35	14	30	14	19
90°	8	31	8	31	8	7
95°	78	358	78	358	78	87
105°	281	2439	281	2439	281	298
115°	498	3141	498	3141	498	492
125°	693	2501	693	2501	693	616
135°	826	1941	826	1941	826	639
145°	959	1574	959	1574	959	601
155°	1083	1356	1083	1356	1083	498
165°	1169	1263	1169	1263	1169	330
175°	1216	1224	1216	1224	1216	115
180°	1216	1216	1216	1216	1216	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	935.2	935.2	940.4	942.1	942.1	939.5	936.9	939.5	947.5	950.1	949.2
5°	931.6	938.7	948.3	950.1	951.8	951.0	949.2	951.0	959.7	961.5	962.4
7.5°	924.6	937.8	950.1	952.7	955.3	952.7	951.8	953.6	962.4	964.1	964.1
10°	915.8	934.3	948.3	950.1	952.7	950.1	950.1	953.6	962.4	964.1	965.0
12.5°	903.6	929.0	942.1	943.9	947.5	946.6	945.6	949.2	957.9	959.7	959.7
15°	889.6	919.4	931.6	933.4	939.5	937.8	937.8	941.3	951.0	953.6	952.7
17.5°	870.2	907.1	921.1	923.7	928.1	927.2	928.1	931.6	940.4	942.1	943.0
20°	848.3	890.4	907.1	909.7	914.1	914.1	914.1	918.5	927.2	930.7	930.7
22.5°	818.5	872.8	890.4	892.2	897.4	897.4	899.2	905.3	913.2	914.1	914.1
25°	783.3	853.5	868.5	873.8	879.0	881.6	884.2	887.8	890.4	889.6	890.4
27.5°	746.5	829.0	848.3	851.8	858.9	861.5	865.0	865.8	866.7	869.3	867.6
30°	705.3	794.8	823.7	827.2	838.6	840.4	836.9	838.6	843.0	844.8	846.6
32.5°	658.8	743.9	798.3	806.2	816.7	811.4	810.6	813.2	820.2	820.2	822.0
35°	595.7	704.4	774.6	781.6	789.5	783.3	786.9	787.8	792.2	794.8	793.9
37.5°	526.4	670.2	750.0	755.3	761.5	753.5	758.8	761.5	764.9	763.2	763.2
40°	465.0	616.7	721.1	724.6	729.9	723.7	729.0	730.8	732.5	730.8	729.9
42.5°	419.4	557.9	690.4	694.7	691.3	695.6	697.5	700.9	698.3	694.7	694.7
45°	384.2	542.1	657.1	662.3	657.1	664.1	666.7	666.7	658.8	657.1	656.2
47.5°	372.8	510.6	623.8	623.8	621.1	629.9	634.2	628.1	620.2	617.6	617.6
50°	371.9	475.4	578.1	574.6	586.9	597.4	593.0	586.9	580.8	571.1	571.1
52.5°	337.7	432.4	519.3	532.5	551.8	557.9	551.0	544.8	534.2	529.8	526.4
55°	313.1	387.7	465.8	492.2	512.3	520.2	507.1	500.9	485.1	482.5	480.8
57.5°	307.9	322.8	416.7	450.1	474.6	473.7	465.8	454.4	441.2	438.6	437.8
60°	282.5	233.4	364.1	403.6	429.0	426.3	419.4	408.8	396.5	394.8	393.0
62.5°	256.1	169.3	304.4	349.2	385.1	384.2	378.1	362.3	353.5	349.2	345.7
65°	217.6	142.1	216.7	290.4	342.1	343.8	330.8	319.3	309.7	304.4	303.6
67.5°	165.8	115.8	146.5	242.2	300.9	299.1	282.5	277.2	264.9	262.3	257.1
70°	122.8	77.2	101.8	196.5	260.6	256.1	243.0	236.8	225.4	219.3	215.8
72.5°	101.8	62.3	74.6	152.6	219.3	214.1	202.7	195.6	186.0	180.7	177.2
75°	82.5	65.8	57.0	113.2	178.1	174.6	164.0	157.1	149.1	142.1	143.0
77.5°	60.5	61.4	45.6	83.4	141.3	136.0	129.8	121.0	117.6	110.6	110.6
80°	45.6	48.2	34.2	57.0	101.8	101.8	96.5	90.3	84.2	80.8	80.8
82.5°	30.7	30.7	25.5	35.9	69.3	66.7	63.1	61.4	57.9	56.2	56.2
85°	14.0	17.5	15.8	21.9	37.8	39.5	39.5	37.8	36.9	35.1	35.9
87.5°	4.4	7.9	9.7	12.3	19.3	20.1	21.0	21.0	21.0	21.9	21.9
90°	8.2	14.7	21.2	22.8	35.9	53.3	62.0	55.1	41.3	31.0	31.0
92.5°	32.6	88.1	143.6	157.5	221.4	306.6	349.2	306.0	219.8	155.0	148.9
95°	78.3	179.8	281.4	306.8	544.8	862.0	1020.6	910.8	691.0	526.2	507.5
97.5°	135.4	225.0	314.5	337.0	733.7	1262.8	1527.3	1457.9	1319.0	1214.8	1179.3
100°	179.5	260.7	341.9	362.2	802.5	1389.6	1683.1	1688.2	1698.4	1706.0	1663.7
102.5°	217.0	292.8	368.6	387.5	834.1	1429.4	1727.2	1815.6	1992.5	2125.2	2089.0
105°	280.6	344.8	409.0	425.0	857.5	1434.0	1722.3	1920.6	2317.3	2614.8	2595.3
107.5°	345.9	405.8	465.6	480.5	861.7	1370.1	1624.3	1901.0	2454.3	2869.3	2874.0
110°	390.0	444.0	498.0	511.5	855.3	1313.5	1542.7	1852.0	2470.6	2934.6	2954.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	433.2	484.7	536.1	549.0	855.6	1264.2	1468.5	1785.1	2418.2	2893.0	2924.2
115°	498.5	546.0	593.5	605.4	863.4	1207.5	1379.6	1684.5	2294.4	2751.8	2795.0
117.5°	562.9	606.1	649.2	660.0	879.5	1172.1	1318.4	1593.6	2144.0	2556.8	2604.8
120°	600.5	641.1	681.8	691.9	892.5	1160.2	1293.9	1545.4	2048.3	2425.5	2472.0
122.5°	637.2	678.2	719.2	729.4	911.3	1153.9	1275.2	1501.6	1954.5	2294.1	2340.1
125°	693.4	730.8	768.2	777.5	936.6	1148.7	1254.8	1447.1	1831.8	2120.4	2162.6
127.5°	739.1	776.8	814.6	824.0	961.9	1145.7	1237.6	1402.8	1733.1	1980.8	2016.6
130°	763.6	804.3	844.9	855.0	980.4	1147.6	1231.1	1378.2	1672.2	1892.7	1925.7
132.5°	788.9	829.6	870.2	880.3	995.3	1148.7	1225.4	1357.0	1620.2	1817.7	1847.2
135°	826.4	863.4	900.5	909.7	1011.6	1147.6	1215.6	1325.8	1546.3	1711.6	1737.1
137.5°	864.8	901.4	938.0	947.2	1036.2	1154.7	1214.0	1307.2	1493.5	1633.3	1654.2
140°	896.6	930.4	964.0	972.5	1051.1	1155.9	1208.3	1288.8	1449.8	1570.5	1590.0
142.5°	921.0	952.3	983.5	991.2	1063.6	1160.1	1208.3	1279.0	1420.4	1526.4	1543.2
145°	958.6	985.8	1013.0	1019.8	1079.9	1160.1	1200.1	1257.9	1373.6	1460.4	1473.0
147.5°	996.1	1022.6	1049.1	1055.7	1103.8	1168.0	1200.1	1245.6	1336.6	1404.8	1415.4
150°	1020.6	1044.5	1068.4	1074.4	1116.3	1172.2	1200.1	1238.5	1315.4	1373.0	1381.6
152.5°	1045.9	1064.1	1082.2	1086.7	1124.5	1174.9	1200.1	1232.9	1298.5	1347.7	1354.2
155°	1083.4	1096.8	1110.3	1113.6	1142.5	1180.9	1200.1	1226.2	1278.4	1317.6	1321.8
157.5°	1111.1	1124.2	1137.3	1140.5	1160.4	1186.8	1200.1	1220.4	1261.0	1291.5	1294.4
160°	1130.0	1140.1	1150.2	1152.7	1168.5	1189.5	1200.1	1217.5	1252.3	1278.4	1280.1
162.5°	1148.7	1156.3	1163.9	1165.8	1177.2	1192.5	1200.1	1214.7	1244.1	1266.2	1267.9
165°	1169.1	1176.0	1182.8	1184.6	1189.7	1196.6	1200.1	1210.6	1231.7	1247.4	1249.2
167.5°	1187.9	1191.1	1194.4	1195.2	1199.6	1205.4	1208.3	1215.2	1229.0	1239.2	1239.9
170°	1200.1	1203.3	1206.6	1207.4	1207.7	1208.1	1208.3	1215.2	1229.0	1239.2	1239.2
172.5°	1206.6	1207.3	1208.1	1208.3	1208.3	1208.3	1208.3	1213.7	1224.6	1232.7	1232.1
175°	1215.6	1215.6	1215.6	1215.6	1213.2	1209.9	1208.3	1211.7	1218.6	1223.7	1223.7
177.5°	1215.6	1215.6	1215.6	1215.6	1213.7	1211.2	1209.9	1212.6	1218.1	1222.2	1221.5
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	951.0	948.3	951.0	949.2	950.1	947.5	939.5	936.9	939.5	942.1	942.1
5°	962.4	960.5	962.4	962.4	961.5	959.7	951.0	949.2	951.0	951.8	950.1
7.5°	965.9	963.2	965.9	964.1	964.1	962.4	953.6	951.8	952.7	955.3	952.7
10°	965.9	963.2	965.9	965.0	964.1	962.4	953.6	950.1	950.1	952.7	950.1
12.5°	961.5	959.7	961.5	959.7	959.7	957.9	949.2	945.6	946.6	947.5	943.9
15°	954.4	951.8	954.4	952.7	953.6	951.0	941.3	937.8	937.8	939.5	933.4
17.5°	943.9	940.4	943.9	943.0	942.1	940.4	931.6	928.1	927.2	928.1	923.7
20°	931.6	929.0	931.6	930.7	930.7	927.2	918.5	914.1	914.1	914.1	909.7
22.5°	912.3	909.7	912.3	914.1	914.1	913.2	905.3	899.2	897.4	897.4	892.2
25°	890.4	887.8	890.4	890.4	889.6	890.4	887.8	884.2	881.6	879.0	873.8
27.5°	869.3	867.6	869.3	867.6	869.3	866.7	865.8	865.0	861.5	858.9	851.8
30°	848.3	846.6	848.3	846.6	844.8	843.0	838.6	836.9	840.4	838.6	827.2
32.5°	822.0	820.2	822.0	822.0	820.2	820.2	813.2	810.6	811.4	816.7	806.2
35°	794.8	792.2	794.8	793.9	794.8	792.2	787.8	786.9	783.3	789.5	781.6
37.5°	763.2	760.6	763.2	763.2	763.2	764.9	761.5	758.8	753.5	761.5	755.3
40°	730.8	727.3	730.8	729.9	730.8	732.5	730.8	729.0	723.7	729.9	724.6
42.5°	693.9	693.0	693.9	694.7	694.7	698.3	700.9	697.5	695.6	691.3	694.7
45°	654.5	652.6	654.5	656.2	657.1	658.8	666.7	666.7	664.1	657.1	662.3
47.5°	612.3	607.9	612.3	617.6	617.6	620.2	628.1	634.2	629.9	621.1	623.8
50°	567.6	568.5	567.6	571.1	571.1	580.8	586.9	593.0	597.4	586.9	574.6
52.5°	523.7	522.9	523.7	526.4	529.8	534.2	544.8	551.0	557.9	551.8	532.5
55°	479.9	481.6	479.9	480.8	482.5	485.1	500.9	507.1	520.2	512.3	492.2
57.5°	436.0	433.4	436.0	437.8	438.6	441.2	454.4	465.8	473.7	474.6	450.1
60°	385.1	381.6	385.1	393.0	394.8	396.5	408.8	419.4	426.3	429.0	403.6
62.5°	340.4	334.3	340.4	345.7	349.2	353.5	362.3	378.1	384.2	385.1	349.2
65°	293.0	290.4	293.0	303.6	304.4	309.7	319.3	330.8	343.8	342.1	290.4
67.5°	250.0	250.0	250.0	257.1	262.3	264.9	277.2	282.5	299.1	300.9	242.2
70°	210.5	209.6	210.5	215.8	219.3	225.4	236.8	243.0	256.1	260.6	196.5
72.5°	172.8	172.0	172.8	177.2	180.7	186.0	195.6	202.7	214.1	219.3	152.6
75°	139.5	137.7	139.5	143.0	142.1	149.1	157.1	164.0	174.6	178.1	113.2
77.5°	107.0	107.0	107.0	110.6	110.6	117.6	121.0	129.8	136.0	141.3	83.4
80°	79.8	78.9	79.8	80.8	80.8	84.2	90.3	96.5	101.8	101.8	57.0
82.5°	56.2	54.4	56.2	56.2	56.2	57.9	61.4	63.1	66.7	69.3	35.9
85°	35.1	35.1	35.1	35.9	35.1	36.9	37.8	39.5	39.5	37.8	21.9
87.5°	22.8	21.9	22.8	21.9	21.9	21.0	21.0	21.0	20.1	19.3	12.3
90°	31.0	31.0	31.0	31.0	31.0	41.3	55.1	62.0	53.3	35.9	22.8
92.5°	124.2	99.5	124.2	148.9	155.0	219.8	306.0	349.2	306.6	221.4	157.5
95°	432.8	358.1	432.8	507.5	526.2	691.0	910.8	1020.6	862.0	544.8	306.8
97.5°	1037.1	895.0	1037.1	1179.3	1214.8	1319.0	1457.9	1527.3	1262.8	733.7	337.0
100°	1494.3	1325.0	1494.3	1663.7	1706.0	1698.4	1688.2	1683.1	1389.6	802.5	362.2
102.5°	1943.9	1798.9	1943.9	2089.0	2125.2	1992.5	1815.6	1727.2	1429.4	834.1	387.5
105°	2517.3	2439.3	2517.3	2595.3	2614.8	2317.3	1920.6	1722.3	1434.0	857.5	425.0
107.5°	2892.9	2911.7	2892.9	2874.0	2869.3	2454.3	1901.0	1624.3	1370.1	861.7	480.5
110°	3036.1	3117.3	3036.1	2954.9	2934.6	2470.6	1852.0	1542.7	1313.5	855.3	511.5

TEST NUMBER: P935838

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3048.9	3173.6	3048.9	2924.2	2893.0	2418.2	1785.1	1468.5	1264.2	855.6	549.0
115°	2968.0	3141.0	2968.0	2795.0	2751.8	2294.4	1684.5	1379.6	1207.5	863.4	605.4
117.5°	2796.6	2988.5	2796.6	2604.8	2556.8	2144.0	1593.6	1318.4	1172.1	879.5	660.0
120°	2658.5	2844.8	2658.5	2472.0	2425.5	2048.3	1545.4	1293.9	1160.2	892.5	691.9
122.5°	2523.9	2707.8	2523.9	2340.1	2294.1	1954.5	1501.6	1275.2	1153.9	911.3	729.4
125°	2332.0	2501.3	2332.0	2162.6	2120.4	1831.8	1447.1	1254.8	1148.7	936.6	777.5
127.5°	2159.4	2302.3	2159.4	2016.6	1980.8	1733.1	1402.8	1237.6	1145.7	961.9	824.0
130°	2057.7	2189.7	2057.7	1925.7	1892.7	1672.2	1378.2	1231.1	1147.6	980.4	855.0
132.5°	1965.4	2083.6	1965.4	1847.2	1817.7	1620.2	1357.0	1225.4	1148.7	995.3	880.3
135°	1839.0	1940.9	1839.0	1737.1	1711.6	1546.3	1325.8	1215.6	1147.6	1011.6	909.7
137.5°	1737.6	1821.0	1737.6	1654.2	1633.3	1493.5	1307.2	1214.0	1154.7	1036.2	947.2
140°	1667.9	1745.9	1667.9	1590.0	1570.5	1449.8	1288.8	1208.3	1155.9	1051.1	972.5
142.5°	1610.3	1677.4	1610.3	1543.2	1526.4	1420.4	1279.0	1208.3	1160.1	1063.6	991.2
145°	1523.8	1574.5	1523.8	1473.0	1460.4	1373.6	1257.9	1200.1	1160.1	1079.9	1019.8
147.5°	1457.4	1499.5	1457.4	1415.4	1404.8	1336.6	1245.6	1200.1	1168.0	1103.8	1055.7
150°	1415.7	1449.8	1415.7	1381.6	1373.0	1315.4	1238.5	1200.1	1172.2	1116.3	1074.4
152.5°	1379.9	1405.7	1379.9	1354.2	1347.7	1298.5	1232.9	1200.1	1174.9	1124.5	1086.7
155°	1338.8	1355.9	1338.8	1321.8	1317.6	1278.4	1226.2	1200.1	1180.9	1142.5	1113.6
157.5°	1306.5	1318.4	1306.5	1294.4	1291.5	1261.0	1220.4	1200.1	1186.8	1160.4	1140.5
160°	1287.0	1293.9	1287.0	1280.1	1278.4	1252.3	1217.5	1200.1	1189.5	1168.5	1152.7
162.5°	1274.3	1280.8	1274.3	1267.9	1266.2	1244.1	1214.7	1200.1	1192.5	1177.2	1165.8
165°	1256.0	1262.9	1256.0	1249.2	1247.4	1231.7	1210.6	1200.1	1196.6	1189.7	1184.6
167.5°	1242.9	1245.8	1242.9	1239.9	1239.2	1229.0	1215.2	1208.3	1205.4	1199.6	1195.2
170°	1239.2	1239.2	1239.2	1239.2	1239.2	1229.0	1215.2	1208.3	1208.1	1207.7	1207.4
172.5°	1229.6	1227.0	1229.6	1232.1	1232.7	1224.6	1213.7	1208.3	1208.3	1208.3	1208.3
175°	1223.7	1223.7	1223.7	1223.7	1223.7	1218.6	1211.7	1208.3	1209.9	1213.2	1215.6
177.5°	1218.5	1215.6	1218.5	1221.5	1222.2	1218.1	1212.6	1209.9	1211.2	1213.7	1215.6
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6

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CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	940.4	935.2	935.2	926.4	922.9	920.3	915.8	902.7	899.2	895.7	900.9
5°	948.3	938.7	931.6	915.8	902.7	897.4	880.8	849.2	828.1	812.3	803.6
7.5°	950.1	937.8	924.6	900.0	868.5	854.4	803.6	745.7	729.9	715.9	707.0
10°	948.3	934.3	915.8	879.0	804.5	779.9	729.0	691.3	681.6	679.0	681.6
12.5°	942.1	929.0	903.6	842.1	737.7	721.1	691.3	669.4	667.5	672.0	695.6
15°	931.6	919.4	889.6	793.0	700.9	688.6	667.5	659.7	669.4	700.1	771.1
17.5°	921.1	907.1	870.2	744.8	672.9	664.1	649.1	664.9	719.3	760.6	784.2
20°	907.1	890.4	848.3	709.7	652.6	644.8	637.7	708.8	750.0	764.9	778.1
22.5°	890.4	872.8	818.5	685.2	631.6	625.5	629.9	733.4	750.0	760.6	772.0
25°	868.5	853.5	783.3	665.8	615.0	607.9	624.6	730.8	740.4	743.1	765.8
27.5°	848.3	829.0	746.5	648.3	594.8	592.1	629.0	719.3	726.4	729.0	753.5
30°	823.7	794.8	705.3	629.9	573.7	572.8	629.9	705.3	703.6	710.5	735.1
32.5°	798.3	743.9	658.8	607.0	553.6	552.7	623.8	684.3	682.5	692.1	710.5
35°	774.6	704.4	595.7	580.8	528.1	529.0	608.8	659.7	660.6	669.4	680.7
37.5°	750.0	670.2	526.4	551.8	503.5	503.5	588.6	636.8	635.1	637.7	653.6
40°	721.1	616.7	465.0	514.1	480.8	478.1	564.0	612.3	606.2	605.3	627.3
42.5°	690.4	557.9	419.4	464.1	454.4	450.9	534.2	582.5	571.1	573.7	601.8
45°	657.1	542.1	384.2	392.2	427.2	424.6	501.8	548.2	540.4	547.4	576.3
47.5°	623.8	510.6	372.8	325.4	398.3	397.4	465.8	514.9	510.6	517.6	548.2
50°	578.1	475.4	371.9	279.0	365.8	369.3	422.8	482.5	482.5	488.6	521.1
52.5°	519.3	432.4	337.7	252.6	328.1	338.6	385.1	454.4	456.2	462.4	491.2
55°	465.8	387.7	313.1	232.5	283.3	306.2	348.3	425.5	429.0	435.1	461.4
57.5°	416.7	322.8	307.9	208.8	242.2	264.1	315.9	397.4	399.1	404.4	429.8
60°	364.1	233.4	282.5	183.3	206.1	222.8	285.9	364.1	370.2	373.7	395.6
62.5°	304.4	169.3	256.1	165.8	188.6	192.1	261.4	332.5	340.4	343.0	356.1
65°	216.7	142.1	217.6	150.9	170.2	171.1	235.1	300.0	307.0	311.4	321.1
67.5°	146.5	115.8	165.8	136.8	156.2	157.1	209.6	262.3	272.0	275.5	281.6
70°	101.8	77.2	122.8	121.9	140.4	142.1	182.4	228.1	236.8	239.5	243.0
72.5°	74.6	62.3	101.8	109.6	123.7	125.5	154.4	189.5	198.3	200.9	202.7
75°	57.0	65.8	82.5	95.7	105.3	106.1	126.4	154.4	160.5	162.3	163.2
77.5°	45.6	61.4	60.5	77.2	86.0	84.2	99.2	119.3	124.5	124.5	124.5
80°	34.2	48.2	45.6	55.3	63.1	61.4	71.1	85.1	86.9	88.6	87.7
82.5°	25.5	30.7	30.7	35.1	42.1	40.4	47.4	55.3	55.3	55.3	57.0
85°	15.8	17.5	14.0	18.4	23.7	22.8	26.3	29.8	30.7	30.7	29.0
87.5°	9.7	7.9	4.4	7.0	10.6	10.6	12.3	13.2	12.3	12.3	12.3
90°	21.2	14.7	8.2	14.7	21.2	22.8	35.9	53.3	62.0	55.1	41.3
92.5°	143.6	88.1	32.6	88.1	143.6	157.5	221.4	306.6	349.2	306.0	219.8
95°	281.4	179.8	78.3	179.8	281.4	306.8	544.8	862.0	1020.6	910.8	691.0
97.5°	314.5	225.0	135.4	225.0	314.5	337.0	733.7	1262.8	1527.3	1457.9	1319.0
100°	341.9	260.7	179.5	260.7	341.9	362.2	802.5	1389.6	1683.1	1688.2	1698.4
102.5°	368.6	292.8	217.0	292.8	368.6	387.5	834.1	1429.4	1727.2	1815.6	1992.5
105°	409.0	344.8	280.6	344.8	409.0	425.0	857.5	1434.0	1722.3	1920.6	2317.3
107.5°	465.6	405.8	345.9	405.8	465.6	480.5	861.7	1370.1	1624.3	1901.0	2454.3
110°	498.0	444.0	390.0	444.0	498.0	511.5	855.3	1313.5	1542.7	1852.0	2470.6

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	536.1	484.7	433.2	484.7	536.1	549.0	855.6	1264.2	1468.5	1785.1	2418.2
115°	593.5	546.0	498.5	546.0	593.5	605.4	863.4	1207.5	1379.6	1684.5	2294.4
117.5°	649.2	606.1	562.9	606.1	649.2	660.0	879.5	1172.1	1318.4	1593.6	2144.0
120°	681.8	641.1	600.5	641.1	681.8	691.9	892.5	1160.2	1293.9	1545.4	2048.3
122.5°	719.2	678.2	637.2	678.2	719.2	729.4	911.3	1153.9	1275.2	1501.6	1954.5
125°	768.2	730.8	693.4	730.8	768.2	777.5	936.6	1148.7	1254.8	1447.1	1831.8
127.5°	814.6	776.8	739.1	776.8	814.6	824.0	961.9	1145.7	1237.6	1402.8	1733.1
130°	844.9	804.3	763.6	804.3	844.9	855.0	980.4	1147.6	1231.1	1378.2	1672.2
132.5°	870.2	829.6	788.9	829.6	870.2	880.3	995.3	1148.7	1225.4	1357.0	1620.2
135°	900.5	863.4	826.4	863.4	900.5	909.7	1011.6	1147.6	1215.6	1325.8	1546.3
137.5°	938.0	901.4	864.8	901.4	938.0	947.2	1036.2	1154.7	1214.0	1307.2	1493.5
140°	964.0	930.4	896.6	930.4	964.0	972.5	1051.1	1155.9	1208.3	1288.8	1449.8
142.5°	983.5	952.3	921.0	952.3	983.5	991.2	1063.6	1160.1	1208.3	1279.0	1420.4
145°	1013.0	985.8	958.6	985.8	1013.0	1019.8	1079.9	1160.1	1200.1	1257.9	1373.6
147.5°	1049.1	1022.6	996.1	1022.6	1049.1	1055.7	1103.8	1168.0	1200.1	1245.6	1336.6
150°	1068.4	1044.5	1020.6	1044.5	1068.4	1074.4	1116.3	1172.2	1200.1	1238.5	1315.4
152.5°	1082.2	1064.1	1045.9	1064.1	1082.2	1086.7	1124.5	1174.9	1200.1	1232.9	1298.5
155°	1110.3	1096.8	1083.4	1096.8	1110.3	1113.6	1142.5	1180.9	1200.1	1226.2	1278.4
157.5°	1137.3	1124.2	1111.1	1124.2	1137.3	1140.5	1160.4	1186.8	1200.1	1220.4	1261.0
160°	1150.2	1140.1	1130.0	1140.1	1150.2	1152.7	1168.5	1189.5	1200.1	1217.5	1252.3
162.5°	1163.9	1156.3	1148.7	1156.3	1163.9	1165.8	1177.2	1192.5	1200.1	1214.7	1244.1
165°	1182.8	1176.0	1169.1	1176.0	1182.8	1184.6	1189.7	1196.6	1200.1	1210.6	1231.7
167.5°	1194.4	1191.1	1187.9	1191.1	1194.4	1195.2	1199.6	1205.4	1208.3	1215.2	1229.0
170°	1206.6	1203.3	1200.1	1203.3	1206.6	1207.4	1207.7	1208.1	1208.3	1215.2	1229.0
172.5°	1208.1	1207.3	1206.6	1207.3	1208.1	1208.3	1208.3	1208.3	1208.3	1213.7	1224.6
175°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1213.2	1209.9	1208.3	1211.7	1218.6
177.5°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1213.7	1211.2	1209.9	1212.6	1218.1
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	894.8	892.2	895.7	886.0	895.7	892.2	894.8	900.9	895.7	899.2	902.7
5°	785.2	780.7	766.7	755.3	766.7	780.7	785.2	803.6	812.3	828.1	849.2
7.5°	701.8	698.3	694.7	687.8	694.7	698.3	701.8	707.0	715.9	729.9	745.7
10°	683.4	684.3	689.5	688.6	689.5	684.3	683.4	681.6	679.0	681.6	691.3
12.5°	730.8	738.6	767.6	765.8	767.6	738.6	730.8	695.6	672.0	667.5	669.4
15°	785.2	787.8	793.9	794.8	793.9	787.8	785.2	771.1	700.1	669.4	659.7
17.5°	790.4	791.3	795.6	795.6	795.6	791.3	790.4	784.2	760.6	719.3	664.9
20°	786.1	787.8	796.5	798.3	796.5	787.8	786.1	778.1	764.9	750.0	708.8
22.5°	784.2	787.8	794.8	793.9	794.8	787.8	784.2	772.0	760.6	750.0	733.4
25°	775.5	775.5	776.4	777.2	776.4	775.5	775.5	765.8	743.1	740.4	730.8
27.5°	757.1	758.8	764.1	763.2	764.1	758.8	757.1	753.5	729.0	726.4	719.3
30°	740.4	738.6	734.3	730.8	734.3	738.6	740.4	735.1	710.5	703.6	705.3
32.5°	712.4	707.9	703.6	700.9	703.6	707.9	712.4	710.5	692.1	682.5	684.3
35°	679.0	679.8	679.0	676.3	679.0	679.8	679.0	680.7	669.4	660.6	659.7
37.5°	655.3	657.1	656.2	652.6	656.2	657.1	655.3	653.6	637.7	635.1	636.8
40°	630.7	631.6	630.7	628.1	630.7	631.6	630.7	627.3	605.3	606.2	612.3
42.5°	607.0	606.2	603.5	601.8	603.5	606.2	607.0	601.8	573.7	571.1	582.5
45°	579.9	580.8	575.5	572.8	575.5	580.8	579.9	576.3	547.4	540.4	548.2
47.5°	552.7	552.7	548.2	545.6	548.2	552.7	552.7	548.2	517.6	510.6	514.9
50°	523.7	522.9	516.7	515.8	516.7	522.9	523.7	521.1	488.6	482.5	482.5
52.5°	490.3	490.3	491.2	493.0	491.2	490.3	490.3	491.2	462.4	456.2	454.4
55°	461.4	462.4	468.5	470.2	468.5	462.4	461.4	461.4	435.1	429.0	425.5
57.5°	431.6	431.6	436.0	436.0	436.0	431.6	431.6	429.8	404.4	399.1	397.4
60°	397.4	399.1	402.6	401.7	402.6	399.1	397.4	395.6	373.7	370.2	364.1
62.5°	361.5	363.2	364.1	362.3	364.1	363.2	361.5	356.1	343.0	340.4	332.5
65°	323.7	325.4	326.3	324.6	326.3	325.4	323.7	321.1	311.4	307.0	300.0
67.5°	285.1	284.2	283.3	286.9	283.3	284.2	285.1	281.6	275.5	272.0	262.3
70°	245.7	245.7	244.8	246.5	244.8	245.7	245.7	243.0	239.5	236.8	228.1
72.5°	203.5	202.7	206.1	203.5	206.1	202.7	203.5	202.7	200.9	198.3	189.5
75°	162.3	164.0	162.3	164.9	162.3	164.0	162.3	163.2	162.3	160.5	154.4
77.5°	123.7	125.5	123.7	123.7	123.7	125.5	123.7	124.5	124.5	124.5	119.3
80°	87.7	86.9	86.9	86.0	86.9	86.9	87.7	87.7	88.6	86.9	85.1
82.5°	56.2	55.3	55.3	57.0	55.3	55.3	56.2	57.0	55.3	55.3	55.3
85°	30.7	31.6	29.8	29.8	29.8	31.6	30.7	29.0	30.7	30.7	29.8
87.5°	11.4	10.6	10.6	10.6	10.6	10.6	11.4	12.3	12.3	12.3	13.2
90°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	41.3	55.1	62.0	53.3
92.5°	155.0	148.9	124.2	99.5	124.2	148.9	155.0	219.8	306.0	349.2	306.6
95°	526.2	507.5	432.8	358.1	432.8	507.5	526.2	691.0	910.8	1020.6	862.0
97.5°	1214.8	1179.3	1037.1	895.0	1037.1	1179.3	1214.8	1319.0	1457.9	1527.3	1262.8
100°	1706.0	1663.7	1494.3	1325.0	1494.3	1663.7	1706.0	1698.4	1688.2	1683.1	1389.6
102.5°	2125.2	2089.0	1943.9	1798.9	1943.9	2089.0	2125.2	1992.5	1815.6	1727.2	1429.4
105°	2614.8	2595.3	2517.3	2439.3	2517.3	2595.3	2614.8	2317.3	1920.6	1722.3	1434.0
107.5°	2869.3	2874.0	2892.9	2911.7	2892.9	2874.0	2869.3	2454.3	1901.0	1624.3	1370.1
110°	2934.6	2954.9	3036.1	3117.3	3036.1	2954.9	2934.6	2470.6	1852.0	1542.7	1313.5

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2893.0	2924.2	3048.9	3173.6	3048.9	2924.2	2893.0	2418.2	1785.1	1468.5	1264.2
115°	2751.8	2795.0	2968.0	3141.0	2968.0	2795.0	2751.8	2294.4	1684.5	1379.6	1207.5
117.5°	2556.8	2604.8	2796.6	2988.5	2796.6	2604.8	2556.8	2144.0	1593.6	1318.4	1172.1
120°	2425.5	2472.0	2658.5	2844.8	2658.5	2472.0	2425.5	2048.3	1545.4	1293.9	1160.2
122.5°	2294.1	2340.1	2523.9	2707.8	2523.9	2340.1	2294.1	1954.5	1501.6	1275.2	1153.9
125°	2120.4	2162.6	2332.0	2501.3	2332.0	2162.6	2120.4	1831.8	1447.1	1254.8	1148.7
127.5°	1980.8	2016.6	2159.4	2302.3	2159.4	2016.6	1980.8	1733.1	1402.8	1237.6	1145.7
130°	1892.7	1925.7	2057.7	2189.7	2057.7	1925.7	1892.7	1672.2	1378.2	1231.1	1147.6
132.5°	1817.7	1847.2	1965.4	2083.6	1965.4	1847.2	1817.7	1620.2	1357.0	1225.4	1148.7
135°	1711.6	1737.1	1839.0	1940.9	1839.0	1737.1	1711.6	1546.3	1325.8	1215.6	1147.6
137.5°	1633.3	1654.2	1737.6	1821.0	1737.6	1654.2	1633.3	1493.5	1307.2	1214.0	1154.7
140°	1570.5	1590.0	1667.9	1745.9	1667.9	1590.0	1570.5	1449.8	1288.8	1208.3	1155.9
142.5°	1526.4	1543.2	1610.3	1677.4	1610.3	1543.2	1526.4	1420.4	1279.0	1208.3	1160.1
145°	1460.4	1473.0	1523.8	1574.5	1523.8	1473.0	1460.4	1373.6	1257.9	1200.1	1160.1
147.5°	1404.8	1415.4	1457.4	1499.5	1457.4	1415.4	1404.8	1336.6	1245.6	1200.1	1168.0
150°	1373.0	1381.6	1415.7	1449.8	1415.7	1381.6	1373.0	1315.4	1238.5	1200.1	1172.2
152.5°	1347.7	1354.2	1379.9	1405.7	1379.9	1354.2	1347.7	1298.5	1232.9	1200.1	1174.9
155°	1317.6	1321.8	1338.8	1355.9	1338.8	1321.8	1317.6	1278.4	1226.2	1200.1	1180.9
157.5°	1291.5	1294.4	1306.5	1318.4	1306.5	1294.4	1291.5	1261.0	1220.4	1200.1	1186.8
160°	1278.4	1280.1	1287.0	1293.9	1287.0	1280.1	1278.4	1252.3	1217.5	1200.1	1189.5
162.5°	1266.2	1267.9	1274.3	1280.8	1274.3	1267.9	1266.2	1244.1	1214.7	1200.1	1192.5
165°	1247.4	1249.2	1256.0	1262.9	1256.0	1249.2	1247.4	1231.7	1210.6	1200.1	1196.6
167.5°	1239.2	1239.9	1242.9	1245.8	1242.9	1239.9	1239.2	1229.0	1215.2	1208.3	1205.4
170°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1229.0	1215.2	1208.3	1208.1
172.5°	1232.7	1232.1	1229.6	1227.0	1229.6	1232.1	1232.7	1224.6	1213.7	1208.3	1208.3
175°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1218.6	1211.7	1208.3	1209.9
177.5°	1222.2	1221.5	1218.5	1215.6	1218.5	1221.5	1222.2	1218.1	1212.6	1209.9	1211.2
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	927.2	927.2	927.2	927.2	927.2
2.5°	915.8	920.3	922.9	926.4	935.2
5°	880.8	897.4	902.7	915.8	931.6
7.5°	803.6	854.4	868.5	900.0	924.6
10°	729.0	779.9	804.5	879.0	915.8
12.5°	691.3	721.1	737.7	842.1	903.6
15°	667.5	688.6	700.9	793.0	889.6
17.5°	649.1	664.1	672.9	744.8	870.2
20°	637.7	644.8	652.6	709.7	848.3
22.5°	629.9	625.5	631.6	685.2	818.5
25°	624.6	607.9	615.0	665.8	783.3
27.5°	629.0	592.1	594.8	648.3	746.5
30°	629.9	572.8	573.7	629.9	705.3
32.5°	623.8	552.7	553.6	607.0	658.8
35°	608.8	529.0	528.1	580.8	595.7
37.5°	588.6	503.5	503.5	551.8	526.4
40°	564.0	478.1	480.8	514.1	465.0
42.5°	534.2	450.9	454.4	464.1	419.4
45°	501.8	424.6	427.2	392.2	384.2
47.5°	465.8	397.4	398.3	325.4	372.8
50°	422.8	369.3	365.8	279.0	371.9
52.5°	385.1	338.6	328.1	252.6	337.7
55°	348.3	306.2	283.3	232.5	313.1
57.5°	315.9	264.1	242.2	208.8	307.9
60°	285.9	222.8	206.1	183.3	282.5
62.5°	261.4	192.1	188.6	165.8	256.1
65°	235.1	171.1	170.2	150.9	217.6
67.5°	209.6	157.1	156.2	136.8	165.8
70°	182.4	142.1	140.4	121.9	122.8
72.5°	154.4	125.5	123.7	109.6	101.8
75°	126.4	106.1	105.3	95.7	82.5
77.5°	99.2	84.2	86.0	77.2	60.5
80°	71.1	61.4	63.1	55.3	45.6
82.5°	47.4	40.4	42.1	35.1	30.7
85°	26.3	22.8	23.7	18.4	14.0
87.5°	12.3	10.6	10.6	7.0	4.4
90°	35.9	22.8	21.2	14.7	8.2
92.5°	221.4	157.5	143.6	88.1	32.6
95°	544.8	306.8	281.4	179.8	78.3
97.5°	733.7	337.0	314.5	225.0	135.4
100°	802.5	362.2	341.9	260.7	179.5
102.5°	834.1	387.5	368.6	292.8	217.0
105°	857.5	425.0	409.0	344.8	280.6
107.5°	861.7	480.5	465.6	405.8	345.9
110°	855.3	511.5	498.0	444.0	390.0



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CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	855.6	549.0	536.1	484.7	433.2
115°	863.4	605.4	593.5	546.0	498.5
117.5°	879.5	660.0	649.2	606.1	562.9
120°	892.5	691.9	681.8	641.1	600.5
122.5°	911.3	729.4	719.2	678.2	637.2
125°	936.6	777.5	768.2	730.8	693.4
127.5°	961.9	824.0	814.6	776.8	739.1
130°	980.4	855.0	844.9	804.3	763.6
132.5°	995.3	880.3	870.2	829.6	788.9
135°	1011.6	909.7	900.5	863.4	826.4
137.5°	1036.2	947.2	938.0	901.4	864.8
140°	1051.1	972.5	964.0	930.4	896.6
142.5°	1063.6	991.2	983.5	952.3	921.0
145°	1079.9	1019.8	1013.0	985.8	958.6
147.5°	1103.8	1055.7	1049.1	1022.6	996.1
150°	1116.3	1074.4	1068.4	1044.5	1020.6
152.5°	1124.5	1086.7	1082.2	1064.1	1045.9
155°	1142.5	1113.6	1110.3	1096.8	1083.4
157.5°	1160.4	1140.5	1137.3	1124.2	1111.1
160°	1168.5	1152.7	1150.2	1140.1	1130.0
162.5°	1177.2	1165.8	1163.9	1156.3	1148.7
165°	1189.7	1184.6	1182.8	1176.0	1169.1
167.5°	1199.6	1195.2	1194.4	1191.1	1187.9
170°	1207.7	1207.4	1206.6	1203.3	1200.1
172.5°	1208.3	1208.3	1208.1	1207.3	1206.6
175°	1213.2	1215.6	1215.6	1215.6	1215.6
177.5°	1213.7	1215.6	1215.6	1215.6	1215.6
180°	1215.6	1215.6	1215.6	1215.6	1215.6

TEST NUMBER: P935838

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3000K

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	7.66	8.33	8.82	9.47	11.08	10.49	11.15	11.64	12.29	13.90
	3H	8.12	8.72	9.29	9.87	11.49	11.81	12.41	12.98	13.56	15.18
	4H	8.31	8.87	9.48	10.02	11.65	12.25	12.81	13.42	13.96	15.59
	6H	8.41	8.93	9.59	10.09	11.72	12.52	13.04	13.70	14.19	15.83
	8H	8.41	8.90	9.59	10.07	11.70	12.59	13.08	13.77	14.25	15.88
	12H	8.37	8.84	9.56	10.00	11.66	12.62	13.09	13.81	14.25	15.90
4H	2H	8.67	9.23	9.85	10.39	12.01	10.87	11.44	12.05	12.59	14.21
	3H	9.68	10.15	10.86	11.32	12.96	12.36	12.83	13.54	14.00	15.64
	4H	9.94	10.38	11.13	11.54	13.20	12.87	13.31	14.06	14.47	16.13
	6H	10.06	10.43	11.25	11.62	13.26	13.23	13.60	14.42	14.79	16.43
	8H	10.06	10.41	11.25	11.58	13.25	13.33	13.67	14.52	14.85	16.52
	12H	10.02	10.33	11.22	11.52	13.19	13.37	13.69	14.58	14.88	16.55
8H	4H	10.38	10.73	11.57	11.91	13.57	12.98	13.33	14.17	14.51	16.17
	6H	10.63	10.92	11.84	12.14	13.80	13.41	13.70	14.62	14.92	16.58
	8H	10.68	10.92	11.89	12.12	13.80	13.56	13.81	14.77	15.01	16.69
	12H	10.65	10.87	11.87	12.06	13.77	13.65	13.87	14.86	15.06	16.77
12H	4H	10.38	10.69	11.58	11.88	13.55	12.94	13.25	14.14	14.44	16.11
	6H	10.69	10.94	11.91	12.14	13.82	13.41	13.65	14.62	14.85	16.53
	8H	10.75	10.97	11.97	12.16	13.87	13.56	13.77	14.77	14.97	16.68

END OF REPORT