

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: P934763

Luminaire Tested: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934763
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

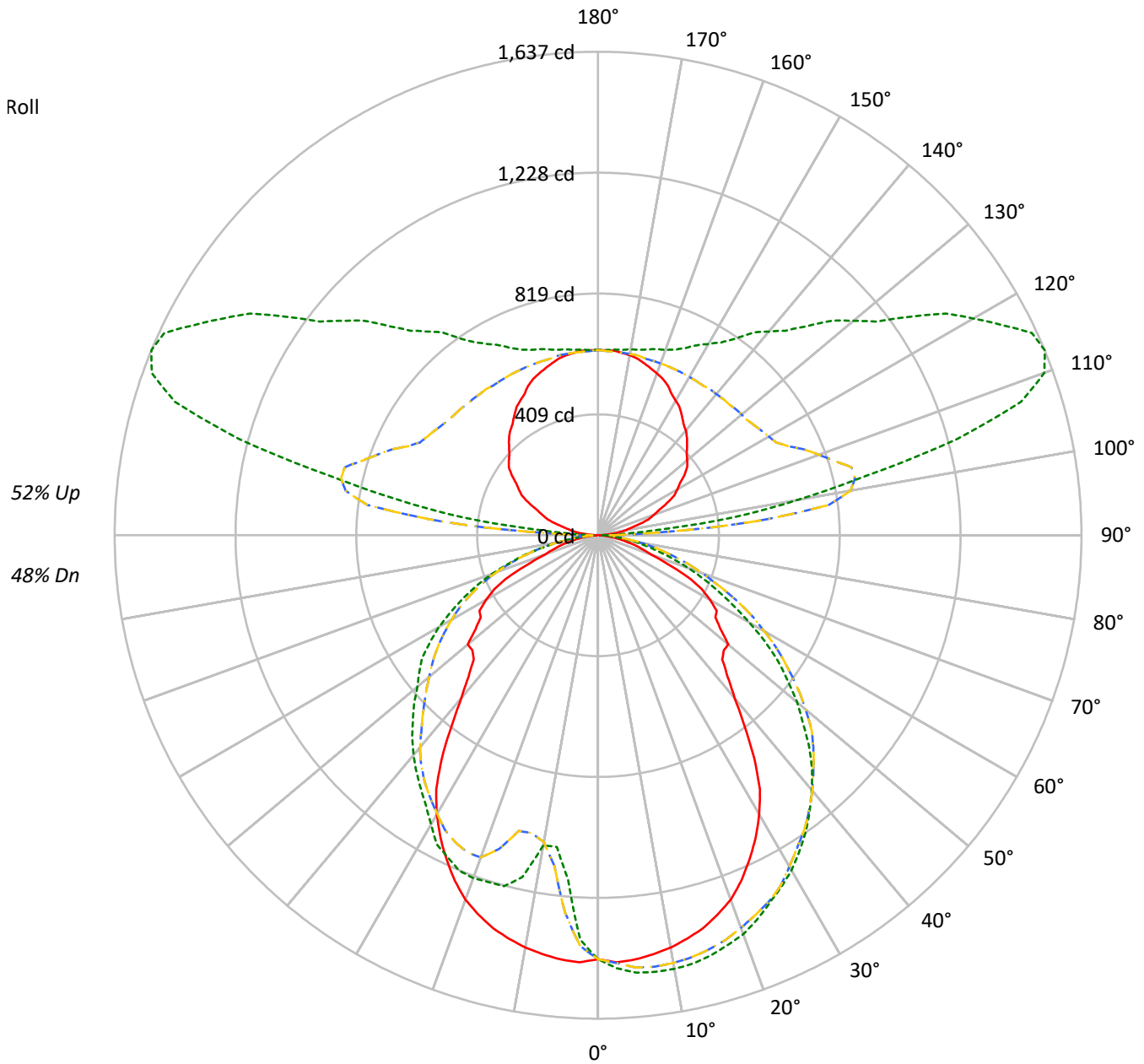
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7788.8 lumens
Efficiency: N/A
Efficacy: 122.5 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: General Diffuse

Input Watts (W): 63.6
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

TEST NUMBER: P934763
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8878	8878	8878	8878
5°	8941	8962	8941	7047
10°	8878	8828	8878	6311
15°	8778	8636	8778	7212
20°	8591	8410	8591	7227
25°	8212	8079	8212	7074
30°	7723	7805	7723	6738
35°	6882	7458	6882	6368
40°	5731	7050	5731	6088
45°	5117	6572	5117	5768
50°	5433	6001	5433	5446
55°	5106	5387	5106	5259
60°	5257	4575	5257	4816
65°	4758	3782	4758	4228
70°	3288	3014	3288	3543
75°	2871	2228	2871	2668
80°	2298	1473	2298	1604
85°	1294	780	1294	664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7848 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.7
10°-20°	367.8	4.7
20°-30°	568.6	7.3
30°-40°	678.8	8.7
40°-50°	682.7	8.8
50°-60°	594.1	7.6
60°-70°	421.2	5.4
70°-80°	222.8	2.9
80°-90°	57.9	0.7
90°-100°	305.7	3.9
100°-110°	803.7	10.3
110°-120°	833.3	10.7
120°-130°	668.4	8.6
130°-140°	524.5	6.7
140°-150°	402.6	5.2
150°-160°	289.9	3.7
160°-170°	177.4	2.3
170°-180°	59.9	0.8
0°-30°	1065.9	13.7
0°-40°	1744.7	22.4
0°-60°	3021.5	38.8
0°-90°	3723.4	47.8
90°-120°	1942.7	24.9
90°-150°	3538.2	45.4
90°-180°	4065.0	52.2
0°-180°	7788.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1435	1435	1435	1435	1435	
5°	1442	1487	1442	1169	1442	137
15°	1377	1473	1377	1230	1377	387
25°	1212	1374	1212	1203	1212	557
35°	922	1226	922	1047	922	570
45°	595	1010	595	887	595	476
55°	485	745	485	728	485	445
65°	337	449	337	502	337	322
75°	128	213	128	255	128	134
85°	22	54	22	46	22	29
90°	4	16	4	16	4	4
95°	40	185	40	185	40	45
105°	145	1258	145	1258	145	154
115°	257	1620	257	1620	257	254
125°	358	1290	358	1290	358	318
135°	426	1001	426	1001	426	330
145°	495	812	495	812	495	310
155°	559	700	559	700	559	257
165°	603	652	603	652	603	170
175°	627	631	627	631	627	60
180°	627	627	627	627	627	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1447.4	1447.4	1455.5	1458.2	1458.2	1454.1	1450.1	1454.1	1466.4	1470.4	1469.1
5°	1441.9	1452.8	1467.7	1470.4	1473.1	1471.8	1469.1	1471.8	1485.4	1488.1	1489.4
7.5°	1431.1	1451.4	1470.4	1474.5	1478.6	1474.5	1473.1	1475.9	1489.4	1492.2	1492.2
10°	1417.5	1446.0	1467.7	1470.4	1474.5	1470.4	1470.4	1475.9	1489.4	1492.2	1493.5
12.5°	1398.5	1437.8	1458.2	1460.9	1466.4	1465.0	1463.6	1469.1	1482.7	1485.4	1485.4
15°	1376.7	1422.9	1441.9	1444.6	1454.1	1451.4	1451.4	1456.9	1471.8	1475.9	1474.5
17.5°	1346.9	1403.9	1425.6	1429.7	1436.5	1435.1	1436.5	1441.9	1455.5	1458.2	1459.6
20°	1312.9	1378.1	1403.9	1408.0	1414.8	1414.8	1414.8	1421.6	1435.1	1440.6	1440.6
22.5°	1266.8	1351.0	1378.1	1380.8	1389.0	1389.0	1391.7	1401.2	1413.4	1414.8	1414.8
25°	1212.5	1321.1	1344.2	1352.3	1360.5	1364.5	1368.6	1374.0	1378.1	1376.7	1378.1
27.5°	1155.4	1283.1	1312.9	1318.4	1329.2	1333.3	1338.7	1340.1	1341.4	1345.5	1342.8
30°	1091.6	1230.1	1274.9	1280.4	1298.0	1300.7	1295.3	1298.0	1304.8	1307.5	1310.2
32.5°	1019.7	1151.4	1235.5	1247.8	1264.1	1255.9	1254.6	1258.6	1269.5	1269.5	1272.2
35°	921.9	1090.3	1198.9	1209.7	1222.0	1212.5	1217.9	1219.3	1226.0	1230.1	1228.8
37.5°	814.6	1037.3	1160.9	1169.0	1178.5	1166.3	1174.4	1178.5	1184.0	1181.2	1181.2
40°	719.6	954.5	1116.1	1121.5	1129.6	1120.1	1128.3	1131.0	1133.7	1131.0	1129.6
42.5°	649.0	863.5	1068.5	1075.3	1069.9	1076.7	1079.4	1084.8	1080.8	1075.3	1075.3
45°	594.7	839.1	1016.9	1025.1	1016.9	1027.8	1031.9	1031.9	1019.7	1016.9	1015.6
47.5°	577.0	790.2	965.4	965.4	961.3	974.9	981.6	972.1	959.9	955.9	955.9
50°	575.7	735.9	894.8	889.3	908.3	924.6	917.8	908.3	898.8	883.9	883.9
52.5°	522.7	669.4	803.8	824.1	854.0	863.5	852.7	843.2	826.9	820.1	814.6
55°	484.7	600.1	721.0	761.7	792.9	805.1	784.8	775.3	750.8	746.8	744.0
57.5°	476.6	499.6	644.9	696.5	734.5	733.2	721.0	703.3	682.9	678.9	677.5
60°	437.2	361.2	563.5	624.6	663.9	659.9	649.0	632.7	613.7	611.0	608.3
62.5°	396.5	262.0	471.1	540.4	596.0	594.7	585.2	560.7	547.2	540.4	535.0
65°	336.7	220.0	335.4	449.4	529.5	532.2	511.9	494.2	479.3	471.1	469.8
67.5°	256.6	179.2	226.7	374.7	465.7	463.0	437.2	429.0	410.0	406.0	397.8
70°	190.1	119.5	157.5	304.1	403.2	396.5	376.1	366.6	348.9	339.4	334.0
72.5°	157.5	96.4	115.4	236.2	339.4	331.3	313.6	302.8	287.8	279.7	274.3
75°	127.6	101.8	88.3	175.1	275.6	270.2	253.9	243.0	230.8	220.0	221.3
77.5°	93.7	95.0	70.6	129.0	218.6	210.4	200.9	187.4	181.9	171.1	171.1
80°	70.6	74.7	53.0	88.3	157.5	157.5	149.4	139.8	130.3	124.9	124.9
82.5°	47.5	47.5	39.4	55.7	107.3	103.2	97.8	95.0	89.6	86.9	86.9
85°	21.7	27.2	24.4	33.9	58.4	61.1	61.1	58.4	57.0	54.3	55.7
87.5°	6.8	12.2	14.9	19.0	29.9	31.2	32.6	32.6	32.6	33.9	33.9
90°	4.2	7.5	11.0	11.8	18.5	27.4	32.0	28.4	21.4	16.0	16.0
92.5°	16.8	45.4	74.0	81.2	114.1	158.1	180.1	157.9	113.3	79.9	76.8
95°	40.4	92.8	145.1	158.2	281.0	444.7	526.5	469.9	356.5	271.5	261.9
97.5°	69.9	116.0	162.2	173.8	378.5	651.4	787.9	752.1	680.5	626.7	608.4
100°	92.6	134.5	176.4	186.9	414.0	716.9	868.3	870.9	876.2	880.1	858.3
102.5°	112.0	151.1	190.2	200.0	430.3	737.4	891.0	936.7	1028.0	1096.4	1077.7
105°	144.8	178.0	211.1	219.3	442.4	739.8	888.5	990.8	1195.4	1349.0	1338.9
107.5°	178.5	209.4	240.2	247.9	444.6	706.8	838.0	980.7	1266.2	1480.3	1482.7
110°	201.2	229.1	256.9	263.9	441.2	677.7	795.9	955.5	1274.6	1514.0	1524.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	223.5	250.0	276.6	283.2	441.4	652.2	757.6	920.9	1247.5	1492.4	1508.5
115°	257.2	281.7	306.1	312.3	445.4	622.9	711.7	869.0	1183.7	1419.7	1441.9
117.5°	290.4	312.6	334.9	340.5	453.8	604.6	680.1	822.2	1106.1	1319.1	1343.8
120°	309.7	330.7	351.7	356.9	460.5	598.5	667.6	797.3	1056.7	1251.3	1275.4
122.5°	328.8	349.8	371.0	376.3	470.1	595.3	657.9	774.6	1008.3	1183.5	1207.2
125°	357.7	377.0	396.3	401.1	483.2	592.6	647.4	746.6	945.1	1093.9	1115.7
127.5°	381.3	400.8	420.2	425.1	496.2	591.1	638.5	723.7	894.1	1021.9	1040.4
130°	393.9	414.9	435.8	441.1	505.8	592.1	635.2	711.0	862.7	976.5	993.5
132.5°	407.0	428.0	448.9	454.1	513.5	592.6	632.2	700.1	835.9	937.7	953.0
135°	426.3	445.4	464.5	469.3	521.9	592.1	627.1	683.9	797.7	883.0	896.1
137.5°	446.2	465.0	483.9	488.6	534.5	595.7	626.3	674.3	770.5	842.6	853.4
140°	462.5	479.9	497.4	501.7	542.3	596.3	623.3	664.8	747.9	810.2	820.3
142.5°	475.2	491.3	507.4	511.4	548.7	598.4	623.3	659.8	732.7	787.5	796.2
145°	494.6	508.6	522.5	526.1	557.1	598.5	619.1	649.0	708.7	753.4	759.9
147.5°	513.9	527.5	541.2	544.6	569.4	602.6	619.1	642.6	689.6	724.8	730.2
150°	526.5	538.8	551.2	554.3	576.0	604.7	619.1	639.0	678.6	708.4	712.8
152.5°	539.6	549.0	558.3	560.7	580.1	606.1	619.1	636.1	669.9	695.3	698.7
155°	558.9	565.8	572.8	574.5	589.4	609.2	619.1	632.6	659.6	679.8	681.9
157.5°	573.2	580.0	586.7	588.4	598.7	612.3	619.1	629.6	650.5	666.3	667.8
160°	582.9	588.2	593.4	594.7	602.8	613.7	619.1	628.1	646.0	659.5	660.4
162.5°	592.6	596.6	600.5	601.5	607.4	615.2	619.1	626.7	641.8	653.3	654.1
165°	603.1	606.7	610.3	611.2	613.8	617.3	619.1	624.6	635.4	643.6	644.5
167.5°	612.8	614.5	616.1	616.6	618.9	621.8	623.3	626.8	634.0	639.3	639.7
170°	619.1	620.8	622.5	622.9	623.0	623.2	623.3	626.8	634.0	639.3	639.3
172.5°	622.5	622.8	623.2	623.3	623.3	623.3	623.3	626.1	631.7	636.0	635.6
175°	627.1	627.1	627.1	627.1	625.8	624.1	623.3	625.1	628.6	631.3	631.3
177.5°	627.1	627.1	627.1	627.1	626.1	624.8	624.2	625.6	628.5	630.5	630.2
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1471.8	1467.7	1471.8	1469.1	1470.4	1466.4	1454.1	1450.1	1454.1	1458.2	1458.2
5°	1489.4	1486.7	1489.4	1489.4	1488.1	1485.4	1471.8	1469.1	1471.8	1473.1	1470.4
7.5°	1494.9	1490.8	1494.9	1492.2	1492.2	1489.4	1475.9	1473.1	1474.5	1478.6	1474.5
10°	1494.9	1490.8	1494.9	1493.5	1492.2	1489.4	1475.9	1470.4	1470.4	1474.5	1470.4
12.5°	1488.1	1485.4	1488.1	1485.4	1485.4	1482.7	1469.1	1463.6	1465.0	1466.4	1460.9
15°	1477.2	1473.1	1477.2	1474.5	1475.9	1471.8	1456.9	1451.4	1451.4	1454.1	1444.6
17.5°	1460.9	1455.5	1460.9	1459.6	1458.2	1455.5	1441.9	1436.5	1435.1	1436.5	1429.7
20°	1441.9	1437.8	1441.9	1440.6	1440.6	1435.1	1421.6	1414.8	1414.8	1414.8	1408.0
22.5°	1412.1	1408.0	1412.1	1414.8	1414.8	1413.4	1401.2	1391.7	1389.0	1389.0	1380.8
25°	1378.1	1374.0	1378.1	1378.1	1376.7	1378.1	1374.0	1368.6	1364.5	1360.5	1352.3
27.5°	1345.5	1342.8	1345.5	1342.8	1345.5	1341.4	1340.1	1338.7	1333.3	1329.2	1318.4
30°	1312.9	1310.2	1312.9	1310.2	1307.5	1304.8	1298.0	1295.3	1300.7	1298.0	1280.4
32.5°	1272.2	1269.5	1272.2	1272.2	1269.5	1269.5	1258.6	1254.6	1255.9	1264.1	1247.8
35°	1230.1	1226.0	1230.1	1228.8	1230.1	1226.0	1219.3	1217.9	1212.5	1222.0	1209.7
37.5°	1181.2	1177.2	1181.2	1181.2	1181.2	1184.0	1178.5	1174.4	1166.3	1178.5	1169.0
40°	1131.0	1125.6	1131.0	1129.6	1131.0	1133.7	1131.0	1128.3	1120.1	1129.6	1121.5
42.5°	1074.0	1072.6	1074.0	1075.3	1075.3	1080.8	1084.8	1079.4	1076.7	1069.9	1075.3
45°	1012.9	1010.2	1012.9	1015.6	1016.9	1019.7	1031.9	1031.9	1027.8	1016.9	1025.1
47.5°	947.7	940.9	947.7	955.9	955.9	959.9	972.1	981.6	974.9	961.3	965.4
50°	878.5	879.8	878.5	883.9	883.9	898.8	908.3	917.8	924.6	908.3	889.3
52.5°	810.6	809.2	810.6	814.6	820.1	826.9	843.2	852.7	863.5	854.0	824.1
55°	742.7	745.4	742.7	744.0	746.8	750.8	775.3	784.8	805.1	792.9	761.7
57.5°	674.8	670.7	674.8	677.5	678.9	682.9	703.3	721.0	733.2	734.5	696.5
60°	596.0	590.6	596.0	608.3	611.0	613.7	632.7	649.0	659.9	663.9	624.6
62.5°	526.8	517.3	526.8	535.0	540.4	547.2	560.7	585.2	594.7	596.0	540.4
65°	453.5	449.4	453.5	469.8	471.1	479.3	494.2	511.9	532.2	529.5	449.4
67.5°	387.0	387.0	387.0	397.8	406.0	410.0	429.0	437.2	463.0	465.7	374.7
70°	325.9	324.5	325.9	334.0	339.4	348.9	366.6	376.1	396.5	403.2	304.1
72.5°	267.5	266.1	267.5	274.3	279.7	287.8	302.8	313.6	331.3	339.4	236.2
75°	215.9	213.2	215.9	221.3	220.0	230.8	243.0	253.9	270.2	275.6	175.1
77.5°	165.6	165.6	165.6	171.1	171.1	181.9	187.4	200.9	210.4	218.6	129.0
80°	123.6	122.2	123.6	124.9	124.9	130.3	139.8	149.4	157.5	157.5	88.3
82.5°	86.9	84.2	86.9	86.9	86.9	89.6	95.0	97.8	103.2	107.3	55.7
85°	54.3	54.3	54.3	55.7	54.3	57.0	58.4	61.1	61.1	58.4	33.9
87.5°	35.3	33.9	35.3	33.9	33.9	32.6	32.6	32.6	31.2	29.9	19.0
90°	16.0	16.0	16.0	16.0	16.0	21.4	28.4	32.0	27.4	18.5	11.8
92.5°	64.0	51.3	64.0	76.8	79.9	113.3	157.9	180.1	158.1	114.1	81.2
95°	223.3	184.7	223.3	261.9	271.5	356.5	469.9	526.5	444.7	281.0	158.2
97.5°	535.0	461.7	535.0	608.4	626.7	680.5	752.1	787.9	651.4	378.5	173.8
100°	770.8	683.5	770.8	858.3	880.1	876.2	870.9	868.3	716.9	414.0	186.9
102.5°	1002.9	928.1	1002.9	1077.7	1096.4	1028.0	936.7	891.0	737.4	430.3	200.0
105°	1298.6	1258.4	1298.6	1338.9	1349.0	1195.4	990.8	888.5	739.8	442.4	219.3
107.5°	1492.4	1502.1	1492.4	1482.7	1480.3	1266.2	980.7	838.0	706.8	444.6	247.9
110°	1566.3	1608.2	1566.3	1524.5	1514.0	1274.6	955.5	795.9	677.7	441.2	263.9



TEST NUMBER: P934763

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1572.9	1637.3	1572.9	1508.5	1492.4	1247.5	920.9	757.6	652.2	441.4	283.2
115°	1531.2	1620.4	1531.2	1441.9	1419.7	1183.7	869.0	711.7	622.9	445.4	312.3
117.5°	1442.7	1541.7	1442.7	1343.8	1319.1	1106.1	822.2	680.1	604.6	453.8	340.5
120°	1371.5	1467.6	1371.5	1275.4	1251.3	1056.7	797.3	667.6	598.5	460.5	356.9
122.5°	1302.1	1396.9	1302.1	1207.2	1183.5	1008.3	774.6	657.9	595.3	470.1	376.3
125°	1203.1	1290.5	1203.1	1115.7	1093.9	945.1	746.6	647.4	592.6	483.2	401.1
127.5°	1114.1	1187.8	1114.1	1040.4	1021.9	894.1	723.7	638.5	591.1	496.2	425.1
130°	1061.6	1129.6	1061.6	993.5	976.5	862.7	711.0	635.2	592.1	505.8	441.1
132.5°	1014.0	1075.0	1014.0	953.0	937.7	835.9	700.1	632.2	592.6	513.5	454.1
135°	948.7	1001.3	948.7	896.1	883.0	797.7	683.9	627.1	592.1	521.9	469.3
137.5°	896.4	939.5	896.4	853.4	842.6	770.5	674.3	626.3	595.7	534.5	488.6
140°	860.5	900.7	860.5	820.3	810.2	747.9	664.8	623.3	596.3	542.3	501.7
142.5°	830.8	865.3	830.8	796.2	787.5	732.7	659.8	623.3	598.4	548.7	511.4
145°	786.1	812.3	786.1	759.9	753.4	708.7	649.0	619.1	598.5	557.1	526.1
147.5°	751.8	773.6	751.8	730.2	724.8	689.6	642.6	619.1	602.6	569.4	544.6
150°	730.4	747.9	730.4	712.8	708.4	678.6	639.0	619.1	604.7	576.0	554.3
152.5°	711.9	725.2	711.9	698.7	695.3	669.9	636.1	619.1	606.1	580.1	560.7
155°	690.7	699.5	690.7	681.9	679.8	659.6	632.6	619.1	609.2	589.4	574.5
157.5°	674.0	680.1	674.0	667.8	666.3	650.5	629.6	619.1	612.3	598.7	588.4
160°	663.9	667.6	663.9	660.4	659.5	646.0	628.1	619.1	613.7	602.8	594.7
162.5°	657.4	660.8	657.4	654.1	653.3	641.8	626.7	619.1	615.2	607.4	601.5
165°	648.0	651.5	648.0	644.5	643.6	635.4	624.6	619.1	617.3	613.8	611.2
167.5°	641.2	642.7	641.2	639.7	639.3	634.0	626.8	623.3	621.8	618.9	616.6
170°	639.3	639.3	639.3	639.3	639.3	634.0	626.8	623.3	623.2	623.0	622.9
172.5°	634.3	633.0	634.3	635.6	636.0	631.7	626.1	623.3	623.3	623.3	623.3
175°	631.3	631.3	631.3	631.3	631.3	628.6	625.1	623.3	624.1	625.8	627.1
177.5°	628.6	627.1	628.6	630.2	630.5	628.5	625.6	624.2	624.8	626.1	627.1
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934763

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1455.5	1447.4	1447.4	1433.8	1428.3	1424.3	1417.5	1397.1	1391.7	1386.3	1394.4
5°	1467.7	1452.8	1441.9	1417.5	1397.1	1389.0	1363.2	1314.3	1281.7	1257.3	1243.7
7.5°	1470.4	1451.4	1431.1	1393.0	1344.2	1322.4	1243.7	1154.1	1129.6	1107.9	1094.3
10°	1467.7	1446.0	1417.5	1360.5	1245.0	1207.0	1128.3	1069.9	1055.0	1050.9	1055.0
12.5°	1458.2	1437.8	1398.5	1303.4	1141.9	1116.1	1069.9	1036.0	1033.2	1040.0	1076.7
15°	1441.9	1422.9	1376.7	1227.4	1084.8	1065.8	1033.2	1021.0	1036.0	1083.5	1193.5
17.5°	1425.6	1403.9	1346.9	1152.7	1041.4	1027.8	1004.7	1029.2	1113.3	1177.2	1213.8
20°	1403.9	1378.1	1312.9	1098.4	1010.2	997.9	987.1	1097.1	1160.9	1184.0	1204.3
22.5°	1378.1	1351.0	1266.8	1060.4	977.6	968.1	974.9	1135.1	1160.9	1177.2	1194.8
25°	1344.2	1321.1	1212.5	1030.5	951.8	940.9	966.7	1131.0	1145.9	1150.0	1185.3
27.5°	1312.9	1283.1	1155.4	1003.4	920.5	916.5	973.5	1113.3	1124.2	1128.3	1166.3
30°	1274.9	1230.1	1091.6	974.9	888.0	886.6	974.9	1091.6	1088.9	1099.8	1137.8
32.5°	1235.5	1151.4	1019.7	939.6	856.7	855.4	965.4	1059.0	1056.3	1071.3	1099.8
35°	1198.9	1090.3	921.9	898.8	817.4	818.7	942.3	1021.0	1022.4	1036.0	1053.6
37.5°	1160.9	1037.3	814.6	854.0	779.3	779.3	911.0	985.7	983.0	987.1	1011.5
40°	1116.1	954.5	719.6	795.6	744.0	740.0	873.0	947.7	938.2	936.8	970.8
42.5°	1068.5	863.5	649.0	718.2	703.3	697.9	826.9	901.5	883.9	888.0	931.4
45°	1016.9	839.1	594.7	606.9	661.2	657.1	776.6	848.6	836.4	847.2	892.0
47.5°	965.4	790.2	577.0	503.7	616.4	615.1	721.0	797.0	790.2	801.1	848.6
50°	894.8	735.9	575.7	431.8	566.2	571.6	654.4	746.8	746.8	756.3	806.5
52.5°	803.8	669.4	522.7	391.0	507.8	524.1	596.0	703.3	706.0	715.5	760.3
55°	721.0	600.1	484.7	359.8	438.6	473.9	539.0	658.5	663.9	673.4	714.2
57.5°	644.9	499.6	476.6	323.1	374.7	408.7	488.8	615.1	617.8	625.9	665.3
60°	563.5	361.2	437.2	283.8	319.1	344.9	442.6	563.5	573.0	578.4	612.3
62.5°	471.1	262.0	396.5	256.6	291.9	297.3	404.6	514.6	526.8	530.9	551.2
65°	335.4	220.0	336.7	233.5	263.4	264.8	363.9	464.3	475.2	482.0	496.9
67.5°	226.7	179.2	256.6	211.8	241.7	243.0	324.5	406.0	420.9	426.3	435.8
70°	157.5	119.5	190.1	188.7	217.2	220.0	282.4	353.0	366.6	370.7	376.1
72.5°	115.4	96.4	157.5	169.7	191.4	194.2	239.0	293.3	306.8	310.9	313.6
75°	88.3	101.8	127.6	148.0	162.9	164.3	195.5	239.0	248.5	251.2	252.5
77.5°	70.6	95.0	93.7	119.5	133.1	130.3	153.4	184.7	192.8	192.8	192.8
80°	53.0	74.7	70.6	85.5	97.8	95.0	110.0	131.7	134.4	137.1	135.8
82.5°	39.4	47.5	47.5	54.3	65.2	62.5	73.3	85.5	85.5	85.5	88.3
85°	24.4	27.2	21.7	28.5	36.7	35.3	40.7	46.2	47.5	47.5	44.8
87.5°	14.9	12.2	6.8	10.9	16.3	16.3	19.0	20.4	19.0	19.0	19.0
90°	11.0	7.5	4.2	7.5	11.0	11.8	18.5	27.4	32.0	28.4	21.4
92.5°	74.0	45.4	16.8	45.4	74.0	81.2	114.1	158.1	180.1	157.9	113.3
95°	145.1	92.8	40.4	92.8	145.1	158.2	281.0	444.7	526.5	469.9	356.5
97.5°	162.2	116.0	69.9	116.0	162.2	173.8	378.5	651.4	787.9	752.1	680.5
100°	176.4	134.5	92.6	134.5	176.4	186.9	414.0	716.9	868.3	870.9	876.2
102.5°	190.2	151.1	112.0	151.1	190.2	200.0	430.3	737.4	891.0	936.7	1028.0
105°	211.1	178.0	144.8	178.0	211.1	219.3	442.4	739.8	888.5	990.8	1195.4
107.5°	240.2	209.4	178.5	209.4	240.2	247.9	444.6	706.8	838.0	980.7	1266.2
110°	256.9	229.1	201.2	229.1	256.9	263.9	441.2	677.7	795.9	955.5	1274.6



TEST NUMBER: P934763

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	276.6	250.0	223.5	250.0	276.6	283.2	441.4	652.2	757.6	920.9	1247.5
115°	306.1	281.7	257.2	281.7	306.1	312.3	445.4	622.9	711.7	869.0	1183.7
117.5°	334.9	312.6	290.4	312.6	334.9	340.5	453.8	604.6	680.1	822.2	1106.1
120°	351.7	330.7	309.7	330.7	351.7	356.9	460.5	598.5	667.6	797.3	1056.7
122.5°	371.0	349.8	328.8	349.8	371.0	376.3	470.1	595.3	657.9	774.6	1008.3
125°	396.3	377.0	357.7	377.0	396.3	401.1	483.2	592.6	647.4	746.6	945.1
127.5°	420.2	400.8	381.3	400.8	420.2	425.1	496.2	591.1	638.5	723.7	894.1
130°	435.8	414.9	393.9	414.9	435.8	441.1	505.8	592.1	635.2	711.0	862.7
132.5°	448.9	428.0	407.0	428.0	448.9	454.1	513.5	592.6	632.2	700.1	835.9
135°	464.5	445.4	426.3	445.4	464.5	469.3	521.9	592.1	627.1	683.9	797.7
137.5°	483.9	465.0	446.2	465.0	483.9	488.6	534.5	595.7	626.3	674.3	770.5
140°	497.4	479.9	462.5	479.9	497.4	501.7	542.3	596.3	623.3	664.8	747.9
142.5°	507.4	491.3	475.2	491.3	507.4	511.4	548.7	598.4	623.3	659.8	732.7
145°	522.5	508.6	494.6	508.6	522.5	526.1	557.1	598.5	619.1	649.0	708.7
147.5°	541.2	527.5	513.9	527.5	541.2	544.6	569.4	602.6	619.1	642.6	689.6
150°	551.2	538.8	526.5	538.8	551.2	554.3	576.0	604.7	619.1	639.0	678.6
152.5°	558.3	549.0	539.6	549.0	558.3	560.7	580.1	606.1	619.1	636.1	669.9
155°	572.8	565.8	558.9	565.8	572.8	574.5	589.4	609.2	619.1	632.6	659.6
157.5°	586.7	580.0	573.2	580.0	586.7	588.4	598.7	612.3	619.1	629.6	650.5
160°	593.4	588.2	582.9	588.2	593.4	594.7	602.8	613.7	619.1	628.1	646.0
162.5°	600.5	596.6	592.6	596.6	600.5	601.5	607.4	615.2	619.1	626.7	641.8
165°	610.3	606.7	603.1	606.7	610.3	611.2	613.8	617.3	619.1	624.6	635.4
167.5°	616.1	614.5	612.8	614.5	616.1	616.6	618.9	621.8	623.3	626.8	634.0
170°	622.5	620.8	619.1	620.8	622.5	622.9	623.0	623.2	623.3	626.8	634.0
172.5°	623.2	622.8	622.5	622.8	623.2	623.3	623.3	623.3	623.3	626.1	631.7
175°	627.1	627.1	627.1	627.1	627.1	627.1	625.8	624.1	623.3	625.1	628.6
177.5°	627.1	627.1	627.1	627.1	627.1	627.1	626.1	624.8	624.2	625.6	628.5
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934763

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1384.9	1380.8	1386.3	1371.3	1386.3	1380.8	1384.9	1394.4	1386.3	1391.7	1397.1
5°	1215.2	1208.4	1186.7	1169.0	1186.7	1208.4	1215.2	1243.7	1257.3	1281.7	1314.3
7.5°	1086.2	1080.8	1075.3	1064.5	1075.3	1080.8	1086.2	1094.3	1107.9	1129.6	1154.1
10°	1057.7	1059.0	1067.2	1065.8	1067.2	1059.0	1057.7	1055.0	1050.9	1055.0	1069.9
12.5°	1131.0	1143.2	1188.0	1185.3	1188.0	1143.2	1131.0	1076.7	1040.0	1033.2	1036.0
15°	1215.2	1219.3	1228.8	1230.1	1228.8	1219.3	1215.2	1193.5	1083.5	1036.0	1021.0
17.5°	1223.3	1224.7	1231.5	1231.5	1231.5	1224.7	1223.3	1213.8	1177.2	1113.3	1029.2
20°	1216.5	1219.3	1232.8	1235.5	1232.8	1219.3	1216.5	1204.3	1184.0	1160.9	1097.1
22.5°	1213.8	1219.3	1230.1	1228.8	1230.1	1219.3	1213.8	1194.8	1177.2	1160.9	1135.1
25°	1200.2	1200.2	1201.6	1203.0	1201.6	1200.2	1200.2	1185.3	1150.0	1145.9	1131.0
27.5°	1171.7	1174.4	1182.6	1181.2	1182.6	1174.4	1171.7	1166.3	1128.3	1124.2	1113.3
30°	1145.9	1143.2	1136.4	1131.0	1136.4	1143.2	1145.9	1137.8	1099.8	1088.9	1091.6
32.5°	1102.5	1095.7	1088.9	1084.8	1088.9	1095.7	1102.5	1099.8	1071.3	1056.3	1059.0
35°	1050.9	1052.2	1050.9	1046.8	1050.9	1052.2	1050.9	1053.6	1036.0	1022.4	1021.0
37.5°	1014.2	1016.9	1015.6	1010.2	1015.6	1016.9	1014.2	1011.5	987.1	983.0	985.7
40°	976.2	977.6	976.2	972.1	976.2	977.6	976.2	970.8	936.8	938.2	947.7
42.5°	939.6	938.2	934.1	931.4	934.1	938.2	939.6	931.4	888.0	883.9	901.5
45°	897.5	898.8	890.7	886.6	890.7	898.8	897.5	892.0	847.2	836.4	848.6
47.5°	855.4	855.4	848.6	844.5	848.6	855.4	855.4	848.6	801.1	790.2	797.0
50°	810.6	809.2	799.7	798.4	799.7	809.2	810.6	806.5	756.3	746.8	746.8
52.5°	759.0	759.0	760.3	763.1	760.3	759.0	759.0	760.3	715.5	706.0	703.3
55°	714.2	715.5	725.0	727.7	725.0	715.5	714.2	714.2	673.4	663.9	658.5
57.5°	668.0	668.0	674.8	674.8	674.8	668.0	668.0	665.3	625.9	617.8	615.1
60°	615.1	617.8	623.2	621.8	623.2	617.8	615.1	612.3	578.4	573.0	563.5
62.5°	559.4	562.1	563.5	560.7	563.5	562.1	559.4	551.2	530.9	526.8	514.6
65°	501.0	503.7	505.1	502.4	505.1	503.7	501.0	496.9	482.0	475.2	464.3
67.5°	441.3	439.9	438.6	444.0	438.6	439.9	441.3	435.8	426.3	420.9	406.0
70°	380.2	380.2	378.8	381.5	378.8	380.2	380.2	376.1	370.7	366.6	353.0
72.5°	315.0	313.6	319.1	315.0	319.1	313.6	315.0	313.6	310.9	306.8	293.3
75°	251.2	253.9	251.2	255.3	251.2	253.9	251.2	252.5	251.2	248.5	239.0
77.5°	191.4	194.2	191.4	191.4	191.4	194.2	191.4	192.8	192.8	192.8	184.7
80°	135.8	134.4	134.4	133.1	134.4	134.4	135.8	135.8	137.1	134.4	131.7
82.5°	86.9	85.5	85.5	88.3	85.5	85.5	86.9	88.3	85.5	85.5	85.5
85°	47.5	48.9	46.2	46.2	46.2	48.9	47.5	44.8	47.5	47.5	46.2
87.5°	17.7	16.3	16.3	16.3	16.3	16.3	17.7	19.0	19.0	19.0	20.4
90°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	21.4	28.4	32.0	27.4
92.5°	79.9	76.8	64.0	51.3	64.0	76.8	79.9	113.3	157.9	180.1	158.1
95°	271.5	261.9	223.3	184.7	223.3	261.9	271.5	356.5	469.9	526.5	444.7
97.5°	626.7	608.4	535.0	461.7	535.0	608.4	626.7	680.5	752.1	787.9	651.4
100°	880.1	858.3	770.8	683.5	770.8	858.3	880.1	876.2	870.9	868.3	716.9
102.5°	1096.4	1077.7	1002.9	928.1	1002.9	1077.7	1096.4	1028.0	936.7	891.0	737.4
105°	1349.0	1338.9	1298.6	1258.4	1298.6	1338.9	1349.0	1195.4	990.8	888.5	739.8
107.5°	1480.3	1482.7	1492.4	1502.1	1492.4	1482.7	1480.3	1266.2	980.7	838.0	706.8
110°	1514.0	1524.5	1566.3	1608.2	1566.3	1524.5	1514.0	1274.6	955.5	795.9	677.7



TEST NUMBER: P934763

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1492.4	1508.5	1572.9	1637.3	1572.9	1508.5	1492.4	1247.5	920.9	757.6	652.2
115°	1419.7	1441.9	1531.2	1620.4	1531.2	1441.9	1419.7	1183.7	869.0	711.7	622.9
117.5°	1319.1	1343.8	1442.7	1541.7	1442.7	1343.8	1319.1	1106.1	822.2	680.1	604.6
120°	1251.3	1275.4	1371.5	1467.6	1371.5	1275.4	1251.3	1056.7	797.3	667.6	598.5
122.5°	1183.5	1207.2	1302.1	1396.9	1302.1	1207.2	1183.5	1008.3	774.6	657.9	595.3
125°	1093.9	1115.7	1203.1	1290.5	1203.1	1115.7	1093.9	945.1	746.6	647.4	592.6
127.5°	1021.9	1040.4	1114.1	1187.8	1114.1	1040.4	1021.9	894.1	723.7	638.5	591.1
130°	976.5	993.5	1061.6	1129.6	1061.6	993.5	976.5	862.7	711.0	635.2	592.1
132.5°	937.7	953.0	1014.0	1075.0	1014.0	953.0	937.7	835.9	700.1	632.2	592.6
135°	883.0	896.1	948.7	1001.3	948.7	896.1	883.0	797.7	683.9	627.1	592.1
137.5°	842.6	853.4	896.4	939.5	896.4	853.4	842.6	770.5	674.3	626.3	595.7
140°	810.2	820.3	860.5	900.7	860.5	820.3	810.2	747.9	664.8	623.3	596.3
142.5°	787.5	796.2	830.8	865.3	830.8	796.2	787.5	732.7	659.8	623.3	598.4
145°	753.4	759.9	786.1	812.3	786.1	759.9	753.4	708.7	649.0	619.1	598.5
147.5°	724.8	730.2	751.8	773.6	751.8	730.2	724.8	689.6	642.6	619.1	602.6
150°	708.4	712.8	730.4	747.9	730.4	712.8	708.4	678.6	639.0	619.1	604.7
152.5°	695.3	698.7	711.9	725.2	711.9	698.7	695.3	669.9	636.1	619.1	606.1
155°	679.8	681.9	690.7	699.5	690.7	681.9	679.8	659.6	632.6	619.1	609.2
157.5°	666.3	667.8	674.0	680.1	674.0	667.8	666.3	650.5	629.6	619.1	612.3
160°	659.5	660.4	663.9	667.6	663.9	660.4	659.5	646.0	628.1	619.1	613.7
162.5°	653.3	654.1	657.4	660.8	657.4	654.1	653.3	641.8	626.7	619.1	615.2
165°	643.6	644.5	648.0	651.5	648.0	644.5	643.6	635.4	624.6	619.1	617.3
167.5°	639.3	639.7	641.2	642.7	641.2	639.7	639.3	634.0	626.8	623.3	621.8
170°	639.3	639.3	639.3	639.3	639.3	639.3	639.3	634.0	626.8	623.3	623.2
172.5°	636.0	635.6	634.3	633.0	634.3	635.6	636.0	631.7	626.1	623.3	623.3
175°	631.3	631.3	631.3	631.3	631.3	631.3	631.3	628.6	625.1	623.3	624.1
177.5°	630.5	630.2	628.6	627.1	628.6	630.2	630.5	628.5	625.6	624.2	624.8
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934763

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1417.5	1424.3	1428.3	1433.8	1447.4
5°	1363.2	1389.0	1397.1	1417.5	1441.9
7.5°	1243.7	1322.4	1344.2	1393.0	1431.1
10°	1128.3	1207.0	1245.0	1360.5	1417.5
12.5°	1069.9	1116.1	1141.9	1303.4	1398.5
15°	1033.2	1065.8	1084.8	1227.4	1376.7
17.5°	1004.7	1027.8	1041.4	1152.7	1346.9
20°	987.1	997.9	1010.2	1098.4	1312.9
22.5°	974.9	968.1	977.6	1060.4	1266.8
25°	966.7	940.9	951.8	1030.5	1212.5
27.5°	973.5	916.5	920.5	1003.4	1155.4
30°	974.9	886.6	888.0	974.9	1091.6
32.5°	965.4	855.4	856.7	939.6	1019.7
35°	942.3	818.7	817.4	898.8	921.9
37.5°	911.0	779.3	779.3	854.0	814.6
40°	873.0	740.0	744.0	795.6	719.6
42.5°	826.9	697.9	703.3	718.2	649.0
45°	776.6	657.1	661.2	606.9	594.7
47.5°	721.0	615.1	616.4	503.7	577.0
50°	654.4	571.6	566.2	431.8	575.7
52.5°	596.0	524.1	507.8	391.0	522.7
55°	539.0	473.9	438.6	359.8	484.7
57.5°	488.8	408.7	374.7	323.1	476.6
60°	442.6	344.9	319.1	283.8	437.2
62.5°	404.6	297.3	291.9	256.6	396.5
65°	363.9	264.8	263.4	233.5	336.7
67.5°	324.5	243.0	241.7	211.8	256.6
70°	282.4	220.0	217.2	188.7	190.1
72.5°	239.0	194.2	191.4	169.7	157.5
75°	195.5	164.3	162.9	148.0	127.6
77.5°	153.4	130.3	133.1	119.5	93.7
80°	110.0	95.0	97.8	85.5	70.6
82.5°	73.3	62.5	65.2	54.3	47.5
85°	40.7	35.3	36.7	28.5	21.7
87.5°	19.0	16.3	16.3	10.9	6.8
90°	18.5	11.8	11.0	7.5	4.2
92.5°	114.1	81.2	74.0	45.4	16.8
95°	281.0	158.2	145.1	92.8	40.4
97.5°	378.5	173.8	162.2	116.0	69.9
100°	414.0	186.9	176.4	134.5	92.6
102.5°	430.3	200.0	190.2	151.1	112.0
105°	442.4	219.3	211.1	178.0	144.8
107.5°	444.6	247.9	240.2	209.4	178.5
110°	441.2	263.9	256.9	229.1	201.2



TEST NUMBER: P934763

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	441.4	283.2	276.6	250.0	223.5
115°	445.4	312.3	306.1	281.7	257.2
117.5°	453.8	340.5	334.9	312.6	290.4
120°	460.5	356.9	351.7	330.7	309.7
122.5°	470.1	376.3	371.0	349.8	328.8
125°	483.2	401.1	396.3	377.0	357.7
127.5°	496.2	425.1	420.2	400.8	381.3
130°	505.8	441.1	435.8	414.9	393.9
132.5°	513.5	454.1	448.9	428.0	407.0
135°	521.9	469.3	464.5	445.4	426.3
137.5°	534.5	488.6	483.9	465.0	446.2
140°	542.3	501.7	497.4	479.9	462.5
142.5°	548.7	511.4	507.4	491.3	475.2
145°	557.1	526.1	522.5	508.6	494.6
147.5°	569.4	544.6	541.2	527.5	513.9
150°	576.0	554.3	551.2	538.8	526.5
152.5°	580.1	560.7	558.3	549.0	539.6
155°	589.4	574.5	572.8	565.8	558.9
157.5°	598.7	588.4	586.7	580.0	573.2
160°	602.8	594.7	593.4	588.2	582.9
162.5°	607.4	601.5	600.5	596.6	592.6
165°	613.8	611.2	610.3	606.7	603.1
167.5°	618.9	616.6	616.1	614.5	612.8
170°	623.0	622.9	622.5	620.8	619.1
172.5°	623.3	623.3	623.2	622.8	622.5
175°	625.8	627.1	627.1	627.1	627.1
177.5°	626.1	627.1	627.1	627.1	627.1
180°	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934763
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.18	13.02	13.16	14.01	15.32	15.01	15.85	15.98	16.84	18.14
	3H	12.66	13.41	13.64	14.41	15.73	16.35	17.10	17.34	18.10	19.43
	4H	12.85	13.56	13.85	14.56	15.90	16.79	17.51	17.79	18.51	19.84
	6H	12.97	13.62	13.98	14.63	15.97	17.07	17.73	18.08	18.74	20.08
	8H	12.97	13.59	13.98	14.62	15.96	17.15	17.77	18.16	18.80	20.14
	12H	12.94	13.53	13.96	14.55	15.91	17.18	17.78	18.21	18.80	20.16
4H	2H	13.21	13.93	14.22	14.93	16.26	15.41	16.13	16.42	17.13	18.46
	3H	14.24	14.83	15.25	15.86	17.21	16.92	17.51	17.93	18.54	19.89
	4H	14.51	15.06	15.53	16.08	17.45	17.44	17.99	18.47	19.01	20.38
	6H	14.64	15.10	15.67	16.15	17.52	17.81	18.27	18.84	19.32	20.68
	8H	14.64	15.08	15.68	16.12	17.50	17.91	18.35	18.95	19.39	20.77
	12H	14.61	15.00	15.66	16.06	17.44	17.97	18.36	19.02	19.41	20.80
8H	4H	14.96	15.40	16.00	16.44	17.82	17.57	18.00	18.60	19.04	20.42
	6H	15.22	15.58	16.28	16.67	18.04	18.00	18.36	19.06	19.44	20.82
	8H	15.27	15.58	16.33	16.65	18.05	18.15	18.47	19.22	19.53	20.93
	12H	15.25	15.53	16.32	16.59	18.03	18.25	18.53	19.32	19.59	21.03
12H	4H	14.97	15.36	16.02	16.42	17.80	17.53	17.92	18.58	18.98	20.36
	6H	15.28	15.60	16.35	16.67	18.06	18.00	18.31	19.06	19.38	20.78
	8H	15.35	15.63	16.42	16.69	18.13	18.16	18.44	19.23	19.50	20.94