

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: P934957

Luminaire Tested: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934957
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

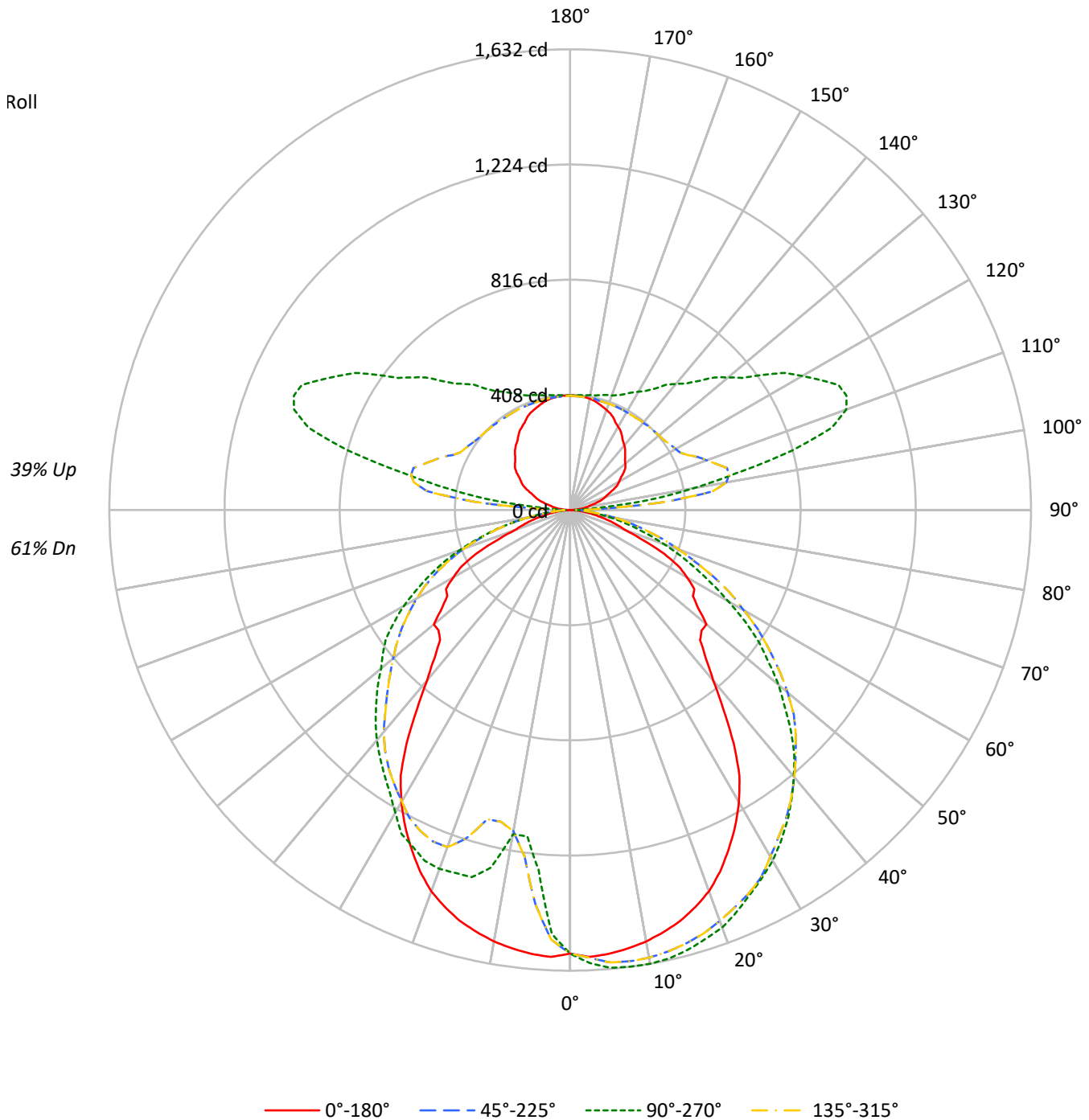
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6705.0 lumens
Efficiency: N/A
Efficacy: 108.1 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-Direct

Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14579	14579	14579	14579
5°	14671	14717	14671	11572
10°	14557	14497	14557	10364
15°	14383	14182	14383	11842
20°	14065	13811	14065	11867
25°	13433	13267	13433	11615
30°	12622	12817	12622	11063
35°	11237	12247	11237	10457
40°	9346	11576	9346	9998
45°	8335	10791	8335	9471
50°	8834	9854	8834	8942
55°	8290	8845	8290	8636
60°	8513	7513	8513	7910
65°	7681	6210	7681	6942
70°	5283	4950	5283	5818
75°	4581	3659	4581	4382
80°	3618	2419	3618	2632
85°	1971	1282	1971	1088

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	2.1
10°-20°	402.7	6.0
20°-30°	622.4	9.3
30°-40°	743.1	11.1
40°-50°	747.4	11.1
50°-60°	650.3	9.7
60°-70°	461.1	6.9
70°-80°	244.0	3.6
80°-90°	62.3	0.9
90°-100°	197.8	2.9
100°-110°	519.9	7.8
110°-120°	539.1	8.0
120°-130°	432.4	6.4
130°-140°	339.3	5.1
140°-150°	260.4	3.9
150°-160°	187.5	2.8
160°-170°	114.7	1.7
170°-180°	38.8	0.6
0°-30°	1166.9	17.4
0°-40°	1910.0	28.5
0°-60°	3307.7	49.3
0°-90°	4075.1	60.8
90°-120°	1256.7	18.7
90°-150°	2288.8	34.1
90°-180°	2630.0	39.2
0°-180°	6705.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1571	1571	1571	1571	1571	
5°	1578	1628	1578	1280	1578	150
15°	1507	1613	1507	1347	1507	424
25°	1327	1504	1327	1317	1327	609
35°	1009	1342	1009	1146	1009	624
45°	651	1106	651	971	651	521
55°	531	816	531	797	531	488
65°	369	492	369	550	369	352
75°	140	233	140	280	140	147
85°	24	60	24	50	24	32
90°	3	10	3	10	3	3
95°	26	120	26	120	26	29
105°	94	814	94	814	94	99
115°	166	1048	166	1048	166	164
125°	231	835	231	835	231	205
135°	276	648	276	648	276	213
145°	320	526	320	526	320	200
155°	362	452	362	452	362	166
165°	390	422	390	422	390	110
175°	406	408	406	408	406	39
180°	406	406	406	406	406	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1584.5	1584.5	1593.4	1596.4	1596.4	1591.9	1587.4	1591.9	1605.3	1609.8	1608.3
5°	1578.5	1590.4	1606.8	1609.8	1612.7	1611.2	1608.3	1611.2	1626.1	1629.1	1630.6
7.5°	1566.6	1588.9	1609.8	1614.2	1618.6	1614.2	1612.7	1615.7	1630.6	1633.6	1633.6
10°	1551.8	1583.0	1606.8	1609.8	1614.2	1609.8	1609.8	1615.7	1630.6	1633.6	1635.0
12.5°	1531.0	1574.1	1596.4	1599.3	1605.3	1603.8	1602.3	1608.3	1623.1	1626.1	1626.1
15°	1507.2	1557.8	1578.5	1581.5	1591.9	1588.9	1588.9	1594.9	1611.2	1615.7	1614.2
17.5°	1474.5	1536.9	1560.7	1565.1	1572.6	1571.1	1572.6	1578.5	1593.4	1596.4	1597.8
20°	1437.3	1508.7	1536.9	1541.3	1548.8	1548.8	1548.8	1556.3	1571.1	1577.1	1577.1
22.5°	1386.7	1479.0	1508.7	1511.6	1520.5	1520.5	1523.5	1534.0	1547.3	1548.8	1548.8
25°	1327.3	1446.2	1471.5	1480.5	1489.3	1493.8	1498.3	1504.2	1508.7	1507.2	1508.7
27.5°	1264.9	1404.6	1437.3	1443.2	1455.2	1459.6	1465.5	1467.0	1468.5	1473.0	1470.0
30°	1195.0	1346.6	1395.7	1401.7	1421.0	1423.9	1418.0	1421.0	1428.4	1431.4	1434.4
32.5°	1116.2	1260.4	1352.6	1365.9	1383.9	1374.9	1373.4	1377.9	1389.7	1389.7	1392.7
35°	1009.3	1193.5	1312.4	1324.4	1337.7	1327.3	1333.3	1334.8	1342.2	1346.6	1345.2
37.5°	891.8	1135.6	1270.8	1279.8	1290.1	1276.8	1285.7	1290.1	1296.1	1293.1	1293.1
40°	787.7	1044.9	1221.8	1227.8	1236.6	1226.3	1235.2	1238.1	1241.1	1238.1	1236.6
42.5°	710.5	945.3	1169.8	1177.2	1171.2	1178.7	1181.7	1187.6	1183.2	1177.2	1177.2
45°	651.0	918.6	1113.2	1122.2	1113.2	1125.2	1129.7	1129.7	1116.2	1113.2	1111.8
47.5°	631.7	865.0	1056.8	1056.8	1052.4	1067.2	1074.6	1064.2	1050.9	1046.4	1046.4
50°	630.2	805.6	979.5	973.6	994.4	1012.2	1004.8	994.4	984.0	967.6	967.6
52.5°	572.2	732.8	880.0	902.2	935.0	945.3	933.5	923.0	905.2	897.8	891.8
55°	530.7	657.0	789.2	833.9	868.0	881.4	859.2	848.7	822.0	817.5	814.5
57.5°	521.7	547.0	706.1	762.5	804.1	802.7	789.2	769.9	747.6	743.2	741.7
60°	478.6	395.4	616.8	683.8	726.8	722.4	710.5	692.6	671.8	668.8	665.9
62.5°	434.1	286.9	515.7	591.5	652.5	651.0	640.6	613.8	599.0	591.5	585.7
65°	368.6	240.8	367.1	492.0	579.7	582.7	560.4	541.0	524.7	515.7	514.2
67.5°	280.9	196.2	248.2	410.3	509.9	506.9	478.6	469.7	448.9	444.4	435.5
70°	208.1	130.8	172.4	333.0	441.4	434.1	411.7	401.3	382.0	371.6	365.6
72.5°	172.4	105.6	126.3	258.7	371.6	362.7	343.3	331.5	315.1	306.2	300.2
75°	139.7	111.5	96.6	191.7	301.7	295.8	278.0	266.0	252.7	240.8	242.2
77.5°	102.6	104.1	77.3	141.2	239.3	230.4	220.0	205.1	199.2	187.3	187.3
80°	77.3	81.8	58.0	96.6	172.4	172.4	163.5	153.1	142.7	136.8	136.8
82.5°	52.0	52.0	43.1	61.0	117.4	112.9	107.0	104.1	98.1	95.1	95.1
85°	23.8	29.7	26.8	37.2	63.9	66.9	66.9	63.9	62.4	59.5	61.0
87.5°	7.5	13.4	16.3	20.8	32.7	34.2	35.7	35.7	35.7	37.2	37.2
90°	2.7	4.9	7.1	7.6	12.0	17.8	20.7	18.4	13.8	10.4	10.4
92.5°	10.9	29.4	47.9	52.5	73.9	102.3	116.6	102.1	73.3	51.7	49.7
95°	26.2	60.1	94.0	102.4	181.8	287.6	340.6	303.9	230.6	175.6	169.3
97.5°	45.2	75.1	105.0	112.4	244.9	421.4	509.7	486.5	440.2	405.4	393.6
100°	59.9	87.0	114.1	120.9	267.8	463.7	561.7	563.3	566.8	569.3	555.2
102.5°	72.5	97.8	123.0	129.3	278.3	477.1	576.4	605.9	665.0	709.2	697.1
105°	93.6	115.1	136.5	141.8	286.2	478.6	574.8	641.0	773.3	872.6	866.1
107.5°	115.4	135.4	155.4	160.4	287.6	457.2	542.1	634.4	819.0	957.5	959.1
110°	130.2	148.2	166.3	170.7	285.4	438.4	514.9	618.1	824.5	979.3	986.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	144.6	161.8	178.9	183.2	285.5	421.9	490.1	595.8	807.0	965.4	975.9
115°	166.4	182.2	198.1	202.0	288.2	403.0	460.4	562.2	765.7	918.4	932.8
117.5°	187.9	202.3	216.7	220.3	293.5	391.1	439.9	531.8	715.5	853.3	869.3
120°	200.4	214.0	227.5	230.9	297.8	387.2	431.8	515.7	683.6	809.4	825.0
122.5°	212.6	226.3	240.0	243.4	304.1	385.0	425.5	501.1	652.2	765.6	781.0
125°	231.4	243.9	256.4	259.5	312.6	383.4	418.8	483.0	611.4	707.6	721.8
127.5°	246.7	259.3	271.8	275.0	321.0	382.4	413.1	468.2	578.4	661.1	673.0
130°	254.9	268.4	281.9	285.4	327.2	382.9	410.9	460.0	558.1	631.7	642.7
132.5°	263.3	276.8	290.4	293.8	332.2	383.4	408.9	452.9	540.8	606.6	616.5
135°	275.8	288.1	300.5	303.5	337.6	383.0	405.7	442.5	516.1	571.2	579.8
137.5°	288.6	300.8	313.0	316.1	345.8	385.4	405.2	436.3	498.4	545.1	552.0
140°	299.2	310.5	321.7	324.5	350.8	385.7	403.2	430.1	483.8	524.1	530.6
142.5°	307.4	317.8	328.1	330.8	354.9	387.2	403.2	426.9	474.0	509.4	515.0
145°	319.9	329.0	338.1	340.3	360.4	387.2	400.5	419.8	458.4	487.4	491.6
147.5°	332.4	341.2	350.1	352.3	368.4	389.8	400.5	415.7	446.1	468.8	472.4
150°	340.6	348.6	356.6	358.6	372.6	391.2	400.5	413.3	439.0	458.2	461.0
152.5°	349.0	355.1	361.2	362.7	375.3	392.1	400.5	411.5	433.4	449.8	451.9
155°	361.6	366.1	370.5	371.6	381.3	394.1	400.5	409.2	426.6	439.7	441.1
157.5°	370.8	375.2	379.6	380.7	387.2	396.1	400.5	407.3	420.8	431.0	431.9
160°	377.1	380.5	383.8	384.7	390.0	397.0	400.5	406.3	418.0	426.7	427.2
162.5°	383.4	385.9	388.5	389.1	392.9	398.0	400.5	405.4	415.2	422.6	423.1
165°	390.1	392.4	394.7	395.3	397.1	399.4	400.5	404.0	411.0	416.3	416.9
167.5°	396.4	397.4	398.6	398.8	400.3	402.3	403.2	405.5	410.2	413.6	413.9
170°	400.5	401.6	402.7	403.0	403.1	403.1	403.2	405.5	410.2	413.6	413.6
172.5°	402.7	403.0	403.1	403.2	403.2	403.2	403.2	405.1	408.7	411.4	411.2
175°	405.7	405.7	405.7	405.7	404.9	403.8	403.2	404.4	406.7	408.4	408.4
177.5°	405.7	405.7	405.7	405.7	405.1	404.2	403.8	404.6	406.5	407.9	407.6
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1611.2	1606.8	1611.2	1608.3	1609.8	1605.3	1591.9	1587.4	1591.9	1596.4	1596.4
5°	1630.6	1627.6	1630.6	1630.6	1629.1	1626.1	1611.2	1608.3	1611.2	1612.7	1609.8
7.5°	1636.5	1632.1	1636.5	1633.6	1633.6	1630.6	1615.7	1612.7	1614.2	1618.6	1614.2
10°	1636.5	1632.1	1636.5	1635.0	1633.6	1630.6	1615.7	1609.8	1609.8	1614.2	1609.8
12.5°	1629.1	1626.1	1629.1	1626.1	1626.1	1623.1	1608.3	1602.3	1603.8	1605.3	1599.3
15°	1617.1	1612.7	1617.1	1614.2	1615.7	1611.2	1594.9	1588.9	1588.9	1591.9	1581.5
17.5°	1599.3	1593.4	1599.3	1597.8	1596.4	1593.4	1578.5	1572.6	1571.1	1572.6	1565.1
20°	1578.5	1574.1	1578.5	1577.1	1577.1	1571.1	1556.3	1548.8	1548.8	1548.8	1541.3
22.5°	1545.8	1541.3	1545.8	1548.8	1548.8	1547.3	1534.0	1523.5	1520.5	1520.5	1511.6
25°	1508.7	1504.2	1508.7	1508.7	1507.2	1508.7	1504.2	1498.3	1493.8	1489.3	1480.5
27.5°	1473.0	1470.0	1473.0	1470.0	1473.0	1468.5	1467.0	1465.5	1459.6	1455.2	1443.2
30°	1437.3	1434.4	1437.3	1434.4	1431.4	1428.4	1421.0	1418.0	1423.9	1421.0	1401.7
32.5°	1392.7	1389.7	1392.7	1392.7	1389.7	1389.7	1377.9	1373.4	1374.9	1383.9	1365.9
35°	1346.6	1342.2	1346.6	1345.2	1346.6	1342.2	1334.8	1333.3	1327.3	1337.7	1324.4
37.5°	1293.1	1288.6	1293.1	1293.1	1293.1	1296.1	1290.1	1285.7	1276.8	1290.1	1279.8
40°	1238.1	1232.2	1238.1	1236.6	1238.1	1241.1	1238.1	1235.2	1226.3	1236.6	1227.8
42.5°	1175.7	1174.2	1175.7	1177.2	1177.2	1183.2	1187.6	1181.7	1178.7	1171.2	1177.2
45°	1108.9	1105.9	1108.9	1111.8	1113.2	1116.2	1129.7	1129.7	1125.2	1113.2	1122.2
47.5°	1037.4	1030.1	1037.4	1046.4	1046.4	1050.9	1064.2	1074.6	1067.2	1052.4	1056.8
50°	961.7	963.1	961.7	967.6	967.6	984.0	994.4	1004.8	1012.2	994.4	973.6
52.5°	887.3	885.9	887.3	891.8	897.8	905.2	923.0	933.5	945.3	935.0	902.2
55°	813.0	816.0	813.0	814.5	817.5	822.0	848.7	859.2	881.4	868.0	833.9
57.5°	738.7	734.3	738.7	741.7	743.2	747.6	769.9	789.2	802.7	804.1	762.5
60°	652.5	646.6	652.5	665.9	668.8	671.8	692.6	710.5	722.4	726.8	683.8
62.5°	576.7	566.3	576.7	585.7	591.5	599.0	613.8	640.6	651.0	652.5	591.5
65°	496.4	492.0	496.4	514.2	515.7	524.7	541.0	560.4	582.7	579.7	492.0
67.5°	423.6	423.6	423.6	435.5	444.4	448.9	469.7	478.6	506.9	509.9	410.3
70°	356.8	355.3	356.8	365.6	371.6	382.0	401.3	411.7	434.1	441.4	333.0
72.5°	292.8	291.3	292.8	300.2	306.2	315.1	331.5	343.3	362.7	371.6	258.7
75°	236.4	233.4	236.4	242.2	240.8	252.7	266.0	278.0	295.8	301.7	191.7
77.5°	181.4	181.4	181.4	187.3	187.3	199.2	205.1	220.0	230.4	239.3	141.2
80°	135.3	133.8	135.3	136.8	136.8	142.7	153.1	163.5	172.4	172.4	96.6
82.5°	95.1	92.1	95.1	95.1	95.1	98.1	104.1	107.0	112.9	117.4	61.0
85°	59.5	59.5	59.5	61.0	59.5	62.4	63.9	66.9	66.9	63.9	37.2
87.5°	38.6	37.2	38.6	37.2	37.2	35.7	35.7	35.7	34.2	32.7	20.8
90°	10.4	10.4	10.4	10.4	10.4	13.8	18.4	20.7	17.8	12.0	7.6
92.5°	41.5	33.2	41.5	49.7	51.7	73.3	102.1	116.6	102.3	73.9	52.5
95°	144.5	119.5	144.5	169.3	175.6	230.6	303.9	340.6	287.6	181.8	102.4
97.5°	346.1	298.7	346.1	393.6	405.4	440.2	486.5	509.7	421.4	244.9	112.4
100°	498.7	442.1	498.7	555.2	569.3	566.8	563.3	561.7	463.7	267.8	120.9
102.5°	648.7	600.3	648.7	697.1	709.2	665.0	605.9	576.4	477.1	278.3	129.3
105°	840.1	814.1	840.1	866.1	872.6	773.3	641.0	574.8	478.6	286.2	141.8
107.5°	965.4	971.8	965.4	959.1	957.5	819.0	634.4	542.1	457.2	287.6	160.4
110°	1013.2	1040.3	1013.2	986.1	979.3	824.5	618.1	514.9	438.4	285.4	170.7



TEST NUMBER: P934957

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1017.5	1059.1	1017.5	975.9	965.4	807.0	595.8	490.1	421.9	285.5	183.2
115°	990.5	1048.3	990.5	932.8	918.4	765.7	562.2	460.4	403.0	288.2	202.0
117.5°	933.3	997.3	933.3	869.3	853.3	715.5	531.8	439.9	391.1	293.5	220.3
120°	887.2	949.4	887.2	825.0	809.4	683.6	515.7	431.8	387.2	297.8	230.9
122.5°	842.3	903.7	842.3	781.0	765.6	652.2	501.1	425.5	385.0	304.1	243.4
125°	778.3	834.7	778.3	721.8	707.6	611.4	483.0	418.8	383.4	312.6	259.5
127.5°	720.6	768.3	720.6	673.0	661.1	578.4	468.2	413.1	382.4	321.0	275.0
130°	686.7	730.7	686.7	642.7	631.7	558.1	460.0	410.9	382.9	327.2	285.4
132.5°	655.9	695.4	655.9	616.5	606.6	540.8	452.9	408.9	383.4	332.2	293.8
135°	613.8	647.7	613.8	579.8	571.2	516.1	442.5	405.7	383.0	337.6	303.5
137.5°	579.9	607.7	579.9	552.0	545.1	498.4	436.3	405.2	385.4	345.8	316.1
140°	556.7	582.7	556.7	530.6	524.1	483.8	430.1	403.2	385.7	350.8	324.5
142.5°	537.3	559.7	537.3	515.0	509.4	474.0	426.9	403.2	387.2	354.9	330.8
145°	508.5	525.5	508.5	491.6	487.4	458.4	419.8	400.5	387.2	360.4	340.3
147.5°	486.4	500.5	486.4	472.4	468.8	446.1	415.7	400.5	389.8	368.4	352.3
150°	472.4	483.9	472.4	461.0	458.2	439.0	413.3	400.5	391.2	372.6	358.6
152.5°	460.5	469.1	460.5	451.9	449.8	433.4	411.5	400.5	392.1	375.3	362.7
155°	446.8	452.5	446.8	441.1	439.7	426.6	409.2	400.5	394.1	381.3	371.6
157.5°	436.0	439.9	436.0	431.9	431.0	420.8	407.3	400.5	396.1	387.2	380.7
160°	429.5	431.8	429.5	427.2	426.7	418.0	406.3	400.5	397.0	390.0	384.7
162.5°	425.3	427.5	425.3	423.1	422.6	415.2	405.4	400.5	398.0	392.9	389.1
165°	419.2	421.5	419.2	416.9	416.3	411.0	404.0	400.5	399.4	397.1	395.3
167.5°	414.8	415.8	414.8	413.9	413.6	410.2	405.5	403.2	402.3	400.3	398.8
170°	413.6	413.6	413.6	413.6	413.6	410.2	405.5	403.2	403.1	403.1	403.0
172.5°	410.3	409.5	410.3	411.2	411.4	408.7	405.1	403.2	403.2	403.2	403.2
175°	408.4	408.4	408.4	408.4	408.4	406.7	404.4	403.2	403.8	404.9	405.7
177.5°	406.7	405.7	406.7	407.6	407.9	406.5	404.6	403.8	404.2	405.1	405.7
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934957

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1593.4	1584.5	1584.5	1569.6	1563.6	1559.2	1551.8	1529.5	1523.5	1517.6	1526.5
5°	1606.8	1590.4	1578.5	1551.8	1529.5	1520.5	1492.3	1438.8	1403.2	1376.4	1361.5
7.5°	1609.8	1588.9	1566.6	1525.0	1471.5	1447.7	1361.5	1263.4	1236.6	1212.8	1198.0
10°	1606.8	1583.0	1551.8	1489.3	1363.0	1321.4	1235.2	1171.2	1154.9	1150.5	1154.9
12.5°	1596.4	1574.1	1531.0	1426.9	1250.0	1221.8	1171.2	1134.1	1131.2	1138.5	1178.7
15°	1578.5	1557.8	1507.2	1343.7	1187.6	1166.8	1131.2	1117.7	1134.1	1186.1	1306.6
17.5°	1560.7	1536.9	1474.5	1261.9	1140.0	1125.2	1099.9	1126.7	1218.8	1288.6	1328.8
20°	1536.9	1508.7	1437.3	1202.5	1105.9	1092.5	1080.6	1201.0	1270.8	1296.1	1318.4
22.5°	1508.7	1479.0	1386.7	1160.9	1070.2	1059.8	1067.2	1242.6	1270.8	1288.6	1308.0
25°	1471.5	1446.2	1327.3	1128.2	1041.9	1030.1	1058.3	1238.1	1254.5	1259.0	1297.6
27.5°	1437.3	1404.6	1264.9	1098.4	1007.8	1003.3	1065.7	1218.8	1230.7	1235.2	1276.8
30°	1395.7	1346.6	1195.0	1067.2	972.1	970.6	1067.2	1195.0	1192.0	1204.0	1245.6
32.5°	1352.6	1260.4	1116.2	1028.6	937.9	936.4	1056.8	1159.4	1156.4	1172.7	1204.0
35°	1312.4	1193.5	1009.3	984.0	894.8	896.3	1031.6	1117.7	1119.2	1134.1	1153.4
37.5°	1270.8	1135.6	891.8	935.0	853.2	853.2	997.3	1079.1	1076.1	1080.6	1107.4
40°	1221.8	1044.9	787.7	871.0	814.5	810.1	955.8	1037.4	1027.1	1025.6	1062.7
42.5°	1169.8	945.3	710.5	786.3	769.9	764.0	905.2	986.9	967.6	972.1	1019.6
45°	1113.2	918.6	651.0	664.4	723.9	719.4	850.2	929.0	915.6	927.5	976.6
47.5°	1056.8	865.0	631.7	551.5	674.8	673.3	789.2	872.5	865.0	877.0	929.0
50°	979.5	805.6	630.2	472.7	619.8	625.8	716.4	817.5	817.5	827.9	882.9
52.5°	880.0	732.8	572.2	428.1	555.9	573.7	652.5	769.9	772.9	783.4	832.4
55°	789.2	657.0	530.7	393.9	480.1	518.7	590.1	720.9	726.8	737.2	781.9
57.5°	706.1	547.0	521.7	353.8	410.3	447.4	535.1	673.3	676.3	685.3	728.3
60°	616.8	395.4	478.6	310.7	349.3	377.5	484.6	616.8	627.3	633.2	670.3
62.5°	515.7	286.9	434.1	280.9	319.5	325.5	442.9	563.3	576.7	581.2	603.5
65°	367.1	240.8	368.6	255.7	288.3	289.8	398.3	508.4	520.2	527.7	544.0
67.5°	248.2	196.2	280.9	231.9	264.5	266.0	355.3	444.4	460.8	466.7	477.1
70°	172.4	130.8	208.1	206.6	237.8	240.8	309.2	386.5	401.3	405.8	411.7
72.5°	126.3	105.6	172.4	185.8	209.6	212.5	261.6	321.0	336.0	340.3	343.3
75°	96.6	111.5	139.7	162.0	178.4	179.9	214.0	261.6	272.0	275.0	276.5
77.5°	77.3	104.1	102.6	130.8	145.6	142.7	167.9	202.2	211.1	211.1	211.1
80°	58.0	81.8	77.3	93.6	107.0	104.1	120.4	144.2	147.1	150.1	148.6
82.5°	43.1	52.0	52.0	59.5	71.3	68.3	80.3	93.6	93.6	93.6	96.6
85°	26.8	29.7	23.8	31.2	40.1	38.6	44.6	50.5	52.0	52.0	49.0
87.5°	16.3	13.4	7.5	11.9	17.8	17.8	20.8	22.3	20.8	20.8	20.8
90°	7.1	4.9	2.7	4.9	7.1	7.6	12.0	17.8	20.7	18.4	13.8
92.5°	47.9	29.4	10.9	29.4	47.9	52.5	73.9	102.3	116.6	102.1	73.3
95°	94.0	60.1	26.2	60.1	94.0	102.4	181.8	287.6	340.6	303.9	230.6
97.5°	105.0	75.1	45.2	75.1	105.0	112.4	244.9	421.4	509.7	486.5	440.2
100°	114.1	87.0	59.9	87.0	114.1	120.9	267.8	463.7	561.7	563.3	566.8
102.5°	123.0	97.8	72.5	97.8	123.0	129.3	278.3	477.1	576.4	605.9	665.0
105°	136.5	115.1	93.6	115.1	136.5	141.8	286.2	478.6	574.8	641.0	773.3
107.5°	155.4	135.4	115.4	135.4	155.4	160.4	287.6	457.2	542.1	634.4	819.0
110°	166.3	148.2	130.2	148.2	166.3	170.7	285.4	438.4	514.9	618.1	824.5



TEST NUMBER: P934957

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	178.9	161.8	144.6	161.8	178.9	183.2	285.5	421.9	490.1	595.8	807.0
115°	198.1	182.2	166.4	182.2	198.1	202.0	288.2	403.0	460.4	562.2	765.7
117.5°	216.7	202.3	187.9	202.3	216.7	220.3	293.5	391.1	439.9	531.8	715.5
120°	227.5	214.0	200.4	214.0	227.5	230.9	297.8	387.2	431.8	515.7	683.6
122.5°	240.0	226.3	212.6	226.3	240.0	243.4	304.1	385.0	425.5	501.1	652.2
125°	256.4	243.9	231.4	243.9	256.4	259.5	312.6	383.4	418.8	483.0	611.4
127.5°	271.8	259.3	246.7	259.3	271.8	275.0	321.0	382.4	413.1	468.2	578.4
130°	281.9	268.4	254.9	268.4	281.9	285.4	327.2	382.9	410.9	460.0	558.1
132.5°	290.4	276.8	263.3	276.8	290.4	293.8	332.2	383.4	408.9	452.9	540.8
135°	300.5	288.1	275.8	288.1	300.5	303.5	337.6	383.0	405.7	442.5	516.1
137.5°	313.0	300.8	288.6	300.8	313.0	316.1	345.8	385.4	405.2	436.3	498.4
140°	321.7	310.5	299.2	310.5	321.7	324.5	350.8	385.7	403.2	430.1	483.8
142.5°	328.1	317.8	307.4	317.8	328.1	330.8	354.9	387.2	403.2	426.9	474.0
145°	338.1	329.0	319.9	329.0	338.1	340.3	360.4	387.2	400.5	419.8	458.4
147.5°	350.1	341.2	332.4	341.2	350.1	352.3	368.4	389.8	400.5	415.7	446.1
150°	356.6	348.6	340.6	348.6	356.6	358.6	372.6	391.2	400.5	413.3	439.0
152.5°	361.2	355.1	349.0	355.1	361.2	362.7	375.3	392.1	400.5	411.5	433.4
155°	370.5	366.1	361.6	366.1	370.5	371.6	381.3	394.1	400.5	409.2	426.6
157.5°	379.6	375.2	370.8	375.2	379.6	380.7	387.2	396.1	400.5	407.3	420.8
160°	383.8	380.5	377.1	380.5	383.8	384.7	390.0	397.0	400.5	406.3	418.0
162.5°	388.5	385.9	383.4	385.9	388.5	389.1	392.9	398.0	400.5	405.4	415.2
165°	394.7	392.4	390.1	392.4	394.7	395.3	397.1	399.4	400.5	404.0	411.0
167.5°	398.6	397.4	396.4	397.4	398.6	398.8	400.3	402.3	403.2	405.5	410.2
170°	402.7	401.6	400.5	401.6	402.7	403.0	403.1	403.1	403.2	405.5	410.2
172.5°	403.1	403.0	402.7	403.0	403.1	403.2	403.2	403.2	403.2	405.1	408.7
175°	405.7	405.7	405.7	405.7	405.7	405.7	404.9	403.8	403.2	404.4	406.7
177.5°	405.7	405.7	405.7	405.7	405.7	405.7	405.1	404.2	403.8	404.6	406.5
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934957

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1516.1	1511.6	1517.6	1501.2	1517.6	1511.6	1516.1	1526.5	1517.6	1523.5	1529.5
5°	1330.3	1322.9	1299.1	1279.8	1299.1	1322.9	1330.3	1361.5	1376.4	1403.2	1438.8
7.5°	1189.1	1183.2	1177.2	1165.3	1177.2	1183.2	1189.1	1198.0	1212.8	1236.6	1263.4
10°	1157.9	1159.4	1168.3	1166.8	1168.3	1159.4	1157.9	1154.9	1150.5	1154.9	1171.2
12.5°	1238.1	1251.5	1300.6	1297.6	1300.6	1251.5	1238.1	1178.7	1138.5	1131.2	1134.1
15°	1330.3	1334.8	1345.2	1346.6	1345.2	1334.8	1330.3	1306.6	1186.1	1134.1	1117.7
17.5°	1339.2	1340.7	1348.1	1348.1	1348.1	1340.7	1339.2	1328.8	1288.6	1218.8	1126.7
20°	1331.8	1334.8	1349.6	1352.6	1349.6	1334.8	1331.8	1318.4	1296.1	1270.8	1201.0
22.5°	1328.8	1334.8	1346.6	1345.2	1346.6	1334.8	1328.8	1308.0	1288.6	1270.8	1242.6
25°	1313.9	1313.9	1315.4	1316.9	1315.4	1313.9	1313.9	1297.6	1259.0	1254.5	1238.1
27.5°	1282.8	1285.7	1294.6	1293.1	1294.6	1285.7	1282.8	1276.8	1235.2	1230.7	1218.8
30°	1254.5	1251.5	1244.1	1238.1	1244.1	1251.5	1254.5	1245.6	1204.0	1192.0	1195.0
32.5°	1207.0	1199.5	1192.0	1187.6	1192.0	1199.5	1207.0	1204.0	1172.7	1156.4	1159.4
35°	1150.5	1151.9	1150.5	1146.0	1150.5	1151.9	1150.5	1153.4	1134.1	1119.2	1117.7
37.5°	1110.3	1113.2	1111.8	1105.9	1111.8	1113.2	1110.3	1107.4	1080.6	1076.1	1079.1
40°	1068.7	1070.2	1068.7	1064.2	1068.7	1070.2	1068.7	1062.7	1025.6	1027.1	1037.4
42.5°	1028.6	1027.1	1022.6	1019.6	1022.6	1027.1	1028.6	1019.6	972.1	967.6	986.9
45°	982.5	984.0	975.1	970.6	975.1	984.0	982.5	976.6	927.5	915.6	929.0
47.5°	936.4	936.4	929.0	924.5	929.0	936.4	936.4	929.0	877.0	865.0	872.5
50°	887.3	885.9	875.5	874.0	875.5	885.9	887.3	882.9	827.9	817.5	817.5
52.5°	830.9	830.9	832.4	835.4	832.4	830.9	830.9	832.4	783.4	772.9	769.9
55°	781.9	783.4	793.7	796.7	793.7	783.4	781.9	781.9	737.2	726.8	720.9
57.5°	731.3	731.3	738.7	738.7	738.7	731.3	731.3	728.3	685.3	676.3	673.3
60°	673.3	676.3	682.3	680.8	682.3	676.3	673.3	670.3	633.2	627.3	616.8
62.5°	612.4	615.3	616.8	613.8	616.8	615.3	612.4	603.5	581.2	576.7	563.3
65°	548.5	551.5	552.9	550.0	552.9	551.5	548.5	544.0	527.7	520.2	508.4
67.5°	483.1	481.6	480.1	486.1	480.1	481.6	483.1	477.1	466.7	460.8	444.4
70°	416.1	416.1	414.7	417.6	414.7	416.1	416.1	411.7	405.8	401.3	386.5
72.5°	344.8	343.3	349.3	344.8	349.3	343.3	344.8	343.3	340.3	336.0	321.0
75°	275.0	278.0	275.0	279.5	275.0	278.0	275.0	276.5	275.0	272.0	261.6
77.5°	209.6	212.5	209.6	209.6	209.6	212.5	209.6	211.1	211.1	211.1	202.2
80°	148.6	147.1	147.1	145.6	147.1	147.1	148.6	148.6	150.1	147.1	144.2
82.5°	95.1	93.6	93.6	96.6	93.6	93.6	95.1	96.6	93.6	93.6	93.6
85°	52.0	53.5	50.5	50.5	50.5	53.5	52.0	49.0	52.0	52.0	50.5
87.5°	19.3	17.8	17.8	17.8	17.8	17.8	19.3	20.8	20.8	20.8	22.3
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	13.8	18.4	20.7	17.8
92.5°	51.7	49.7	41.5	33.2	41.5	49.7	51.7	73.3	102.1	116.6	102.3
95°	175.6	169.3	144.5	119.5	144.5	169.3	175.6	230.6	303.9	340.6	287.6
97.5°	405.4	393.6	346.1	298.7	346.1	393.6	405.4	440.2	486.5	509.7	421.4
100°	569.3	555.2	498.7	442.1	498.7	555.2	569.3	566.8	563.3	561.7	463.7
102.5°	709.2	697.1	648.7	600.3	648.7	697.1	709.2	665.0	605.9	576.4	477.1
105°	872.6	866.1	840.1	814.1	840.1	866.1	872.6	773.3	641.0	574.8	478.6
107.5°	957.5	959.1	965.4	971.8	965.4	959.1	957.5	819.0	634.4	542.1	457.2
110°	979.3	986.1	1013.2	1040.3	1013.2	986.1	979.3	824.5	618.1	514.9	438.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	965.4	975.9	1017.5	1059.1	1017.5	975.9	965.4	807.0	595.8	490.1	421.9
115°	918.4	932.8	990.5	1048.3	990.5	932.8	918.4	765.7	562.2	460.4	403.0
117.5°	853.3	869.3	933.3	997.3	933.3	869.3	853.3	715.5	531.8	439.9	391.1
120°	809.4	825.0	887.2	949.4	887.2	825.0	809.4	683.6	515.7	431.8	387.2
122.5°	765.6	781.0	842.3	903.7	842.3	781.0	765.6	652.2	501.1	425.5	385.0
125°	707.6	721.8	778.3	834.7	778.3	721.8	707.6	611.4	483.0	418.8	383.4
127.5°	661.1	673.0	720.6	768.3	720.6	673.0	661.1	578.4	468.2	413.1	382.4
130°	631.7	642.7	686.7	730.7	686.7	642.7	631.7	558.1	460.0	410.9	382.9
132.5°	606.6	616.5	655.9	695.4	655.9	616.5	606.6	540.8	452.9	408.9	383.4
135°	571.2	579.8	613.8	647.7	613.8	579.8	571.2	516.1	442.5	405.7	383.0
137.5°	545.1	552.0	579.9	607.7	579.9	552.0	545.1	498.4	436.3	405.2	385.4
140°	524.1	530.6	556.7	582.7	556.7	530.6	524.1	483.8	430.1	403.2	385.7
142.5°	509.4	515.0	537.3	559.7	537.3	515.0	509.4	474.0	426.9	403.2	387.2
145°	487.4	491.6	508.5	525.5	508.5	491.6	487.4	458.4	419.8	400.5	387.2
147.5°	468.8	472.4	486.4	500.5	486.4	472.4	468.8	446.1	415.7	400.5	389.8
150°	458.2	461.0	472.4	483.9	472.4	461.0	458.2	439.0	413.3	400.5	391.2
152.5°	449.8	451.9	460.5	469.1	460.5	451.9	449.8	433.4	411.5	400.5	392.1
155°	439.7	441.1	446.8	452.5	446.8	441.1	439.7	426.6	409.2	400.5	394.1
157.5°	431.0	431.9	436.0	439.9	436.0	431.9	431.0	420.8	407.3	400.5	396.1
160°	426.7	427.2	429.5	431.8	429.5	427.2	426.7	418.0	406.3	400.5	397.0
162.5°	422.6	423.1	425.3	427.5	425.3	423.1	422.6	415.2	405.4	400.5	398.0
165°	416.3	416.9	419.2	421.5	419.2	416.9	416.3	411.0	404.0	400.5	399.4
167.5°	413.6	413.9	414.8	415.8	414.8	413.9	413.6	410.2	405.5	403.2	402.3
170°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	410.2	405.5	403.2	403.1
172.5°	411.4	411.2	410.3	409.5	410.3	411.2	411.4	408.7	405.1	403.2	403.2
175°	408.4	408.4	408.4	408.4	408.4	408.4	408.4	406.7	404.4	403.2	403.8
177.5°	407.9	407.6	406.7	405.7	406.7	407.6	407.9	406.5	404.6	403.8	404.2
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1551.8	1559.2	1563.6	1569.6	1584.5
5°	1492.3	1520.5	1529.5	1551.8	1578.5
7.5°	1361.5	1447.7	1471.5	1525.0	1566.6
10°	1235.2	1321.4	1363.0	1489.3	1551.8
12.5°	1171.2	1221.8	1250.0	1426.9	1531.0
15°	1131.2	1166.8	1187.6	1343.7	1507.2
17.5°	1099.9	1125.2	1140.0	1261.9	1474.5
20°	1080.6	1092.5	1105.9	1202.5	1437.3
22.5°	1067.2	1059.8	1070.2	1160.9	1386.7
25°	1058.3	1030.1	1041.9	1128.2	1327.3
27.5°	1065.7	1003.3	1007.8	1098.4	1264.9
30°	1067.2	970.6	972.1	1067.2	1195.0
32.5°	1056.8	936.4	937.9	1028.6	1116.2
35°	1031.6	896.3	894.8	984.0	1009.3
37.5°	997.3	853.2	853.2	935.0	891.8
40°	955.8	810.1	814.5	871.0	787.7
42.5°	905.2	764.0	769.9	786.3	710.5
45°	850.2	719.4	723.9	664.4	651.0
47.5°	789.2	673.3	674.8	551.5	631.7
50°	716.4	625.8	619.8	472.7	630.2
52.5°	652.5	573.7	555.9	428.1	572.2
55°	590.1	518.7	480.1	393.9	530.7
57.5°	535.1	447.4	410.3	353.8	521.7
60°	484.6	377.5	349.3	310.7	478.6
62.5°	442.9	325.5	319.5	280.9	434.1
65°	398.3	289.8	288.3	255.7	368.6
67.5°	355.3	266.0	264.5	231.9	280.9
70°	309.2	240.8	237.8	206.6	208.1
72.5°	261.6	212.5	209.6	185.8	172.4
75°	214.0	179.9	178.4	162.0	139.7
77.5°	167.9	142.7	145.6	130.8	102.6
80°	120.4	104.1	107.0	93.6	77.3
82.5°	80.3	68.3	71.3	59.5	52.0
85°	44.6	38.6	40.1	31.2	23.8
87.5°	20.8	17.8	17.8	11.9	7.5
90°	12.0	7.6	7.1	4.9	2.7
92.5°	73.9	52.5	47.9	29.4	10.9
95°	181.8	102.4	94.0	60.1	26.2
97.5°	244.9	112.4	105.0	75.1	45.2
100°	267.8	120.9	114.1	87.0	59.9
102.5°	278.3	129.3	123.0	97.8	72.5
105°	286.2	141.8	136.5	115.1	93.6
107.5°	287.6	160.4	155.4	135.4	115.4
110°	285.4	170.7	166.3	148.2	130.2



TEST NUMBER: P934957

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	285.5	183.2	178.9	161.8	144.6
115°	288.2	202.0	198.1	182.2	166.4
117.5°	293.5	220.3	216.7	202.3	187.9
120°	297.8	230.9	227.5	214.0	200.4
122.5°	304.1	243.4	240.0	226.3	212.6
125°	312.6	259.5	256.4	243.9	231.4
127.5°	321.0	275.0	271.8	259.3	246.7
130°	327.2	285.4	281.9	268.4	254.9
132.5°	332.2	293.8	290.4	276.8	263.3
135°	337.6	303.5	300.5	288.1	275.8
137.5°	345.8	316.1	313.0	300.8	288.6
140°	350.8	324.5	321.7	310.5	299.2
142.5°	354.9	330.8	328.1	317.8	307.4
145°	360.4	340.3	338.1	329.0	319.9
147.5°	368.4	352.3	350.1	341.2	332.4
150°	372.6	358.6	356.6	348.6	340.6
152.5°	375.3	362.7	361.2	355.1	349.0
155°	381.3	371.6	370.5	366.1	361.6
157.5°	387.2	380.7	379.6	375.2	370.8
160°	390.0	384.7	383.8	380.5	377.1
162.5°	392.9	389.1	388.5	385.9	383.4
165°	397.1	395.3	394.7	392.4	390.1
167.5°	400.3	398.8	398.6	397.4	396.4
170°	403.1	403.0	402.7	401.6	400.5
172.5°	403.2	403.2	403.1	403.0	402.7
175°	404.9	405.7	405.7	405.7	405.7
177.5°	405.1	405.7	405.7	405.7	405.7
180°	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934957

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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	15.04	16.01	15.90	16.89	18.00	17.84	18.81	18.70	19.69	20.80
	3H	15.53	16.40	16.40	17.29	18.42	19.18	20.05	20.05	20.94	22.08
	4H	15.72	16.54	16.61	17.44	18.58	19.63	20.45	20.51	21.34	22.49
	6H	15.85	16.60	16.75	17.51	18.67	19.91	20.66	20.81	21.57	22.73
	8H	15.85	16.57	16.76	17.49	18.65	19.98	20.70	20.89	21.62	22.78
	12H	15.83	16.51	16.74	17.43	18.61	20.02	20.71	20.93	21.62	22.80
4H	2H	16.08	16.90	16.97	17.80	18.94	18.26	19.08	19.16	19.98	21.12
	3H	17.12	17.80	18.02	18.73	19.89	19.77	20.45	20.67	21.38	22.54
	4H	17.40	18.02	18.31	18.94	20.13	20.30	20.92	21.21	21.84	23.03
	6H	17.53	18.07	18.46	19.01	20.20	20.66	21.20	21.59	22.14	23.33
	8H	17.54	18.04	18.47	18.98	20.18	20.76	21.27	21.69	22.21	23.41
	12H	17.51	17.96	18.46	18.92	20.13	20.82	21.27	21.77	22.23	23.44
8H	4H	17.85	18.36	18.79	19.30	20.50	20.43	20.93	21.36	21.87	23.07
	6H	18.12	18.54	19.08	19.52	20.72	20.86	21.28	21.82	22.26	23.46
	8H	18.16	18.53	19.13	19.50	20.72	21.01	21.38	21.98	22.35	23.57
	12H	18.15	18.48	19.12	19.44	20.71	21.11	21.43	22.08	22.40	23.66
12H	4H	17.86	18.32	18.82	19.28	20.48	20.40	20.85	21.35	21.81	23.02
	6H	18.18	18.55	19.15	19.52	20.74	20.86	21.23	21.83	22.20	23.42
	8H	18.25	18.58	19.22	19.54	20.81	21.02	21.35	21.99	22.31	23.58