

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: P933900

Luminaire Tested: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933900
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

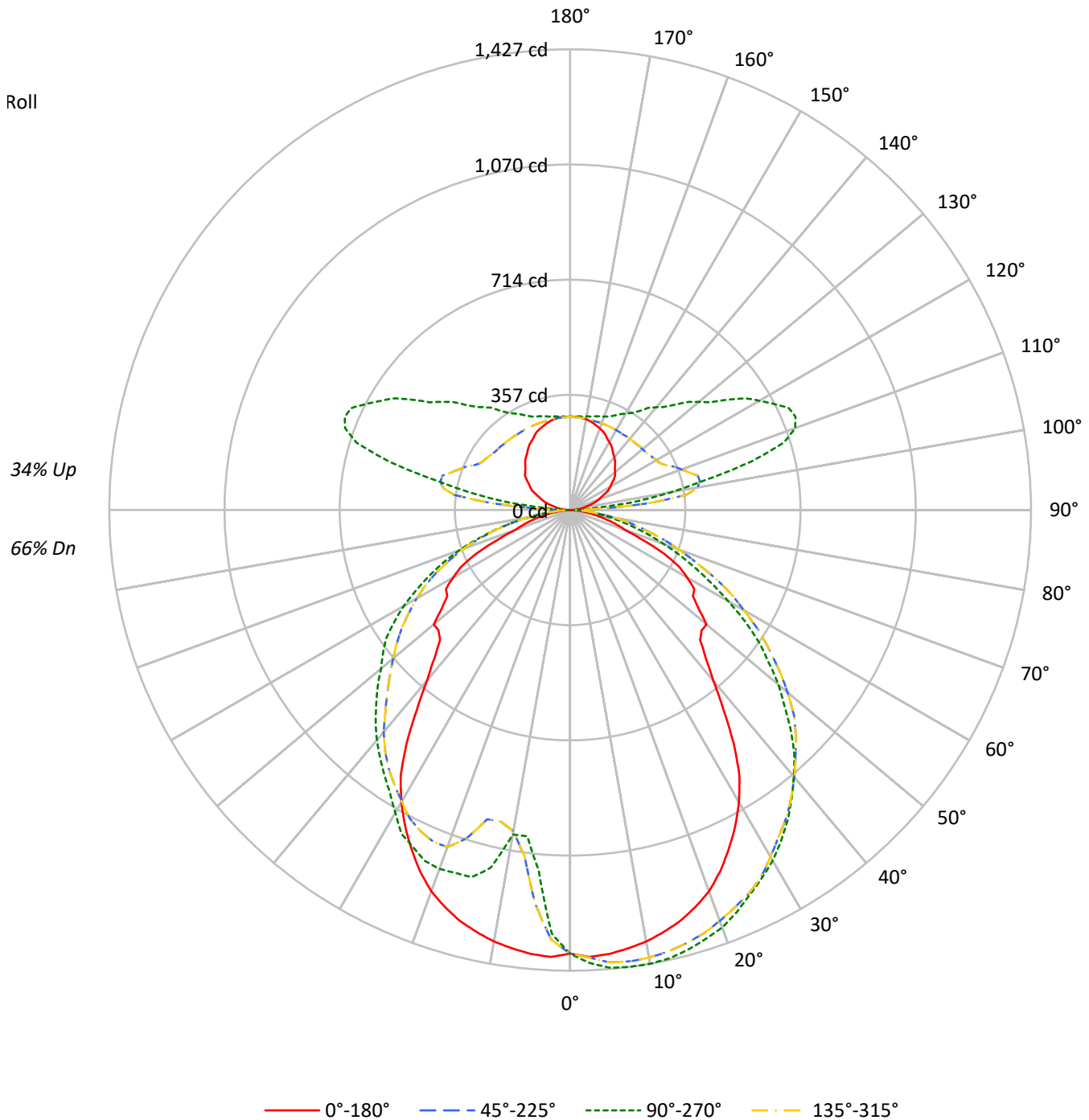
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5438.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 44
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6422	6434	6422	5059
10°	6379	6338	6379	4531
15°	6309	6201	6309	5177
20°	6177	6038	6177	5189
25°	5907	5801	5907	5079
30°	5558	5604	5558	4837
35°	4955	5355	4955	4571
40°	4129	5061	4129	4371
45°	3689	4718	3689	4141
50°	3919	4309	3919	3910
55°	3687	3868	3687	3775
60°	3801	3285	3801	3458
65°	3446	2715	3446	3035
70°	2387	2164	2387	2544
75°	2093	1600	2093	1916
80°	1684	1058	1684	1151
85°	969	560	969	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	2.3
10°-20°	352.1	6.5
20°-30°	544.3	10.0
30°-40°	649.8	11.9
40°-50°	653.6	12.0
50°-60°	568.7	10.5
60°-70°	403.2	7.4
70°-80°	213.3	3.9
80°-90°	54.2	1.0
90°-100°	141.0	2.6
100°-110°	370.6	6.8
110°-120°	384.3	7.1
120°-130°	308.3	5.7
130°-140°	241.9	4.4
140°-150°	185.7	3.4
150°-160°	133.7	2.5
160°-170°	81.8	1.5
170°-180°	27.6	0.5
0°-30°	1020.4	18.8
0°-40°	1670.1	30.7
0°-60°	2892.4	53.2
0°-90°	3563.1	65.5
90°-120°	895.9	16.5
90°-150°	1631.8	30.0
90°-180°	1875.0	34.5
0°-180°	5438.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1374	1374	1374	1374	1374	
5°	1380	1423	1380	1119	1380	131
15°	1318	1410	1318	1178	1318	371
25°	1161	1315	1161	1152	1161	533
35°	882	1174	882	1002	882	546
45°	569	967	569	849	569	456
55°	464	714	464	697	464	426
65°	322	430	322	481	322	308
75°	122	204	122	244	122	128
85°	21	52	21	44	21	28
90°	2	7	2	7	2	2
95°	19	85	19	85	19	21
105°	67	580	67	580	67	71
115°	119	747	119	747	119	117
125°	165	595	165	595	165	146
135°	197	462	197	462	197	152
145°	228	375	228	375	228	143
155°	258	323	258	323	258	118
165°	278	300	278	300	278	79
175°	289	291	289	291	289	27
180°	289	289	289	289	289	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1385.5	1385.5	1393.3	1395.9	1395.9	1392.0	1388.1	1392.0	1403.7	1407.6	1406.3
5°	1380.3	1390.7	1405.0	1407.6	1410.2	1408.9	1406.3	1408.9	1421.9	1424.5	1425.8
7.5°	1369.9	1389.4	1407.6	1411.5	1415.4	1411.5	1410.2	1412.8	1425.8	1428.4	1428.4
10°	1356.9	1384.2	1405.0	1407.6	1411.5	1407.6	1407.6	1412.8	1425.8	1428.4	1429.7
12.5°	1338.7	1376.4	1395.9	1398.5	1403.7	1402.4	1401.1	1406.3	1419.3	1421.9	1421.9
15°	1317.9	1362.1	1380.3	1382.9	1392.0	1389.4	1389.4	1394.6	1408.9	1412.8	1411.5
17.5°	1289.4	1343.9	1364.7	1368.6	1375.1	1373.8	1375.1	1380.3	1393.3	1395.9	1397.2
20°	1256.8	1319.2	1343.9	1347.8	1354.3	1354.3	1354.3	1360.8	1373.8	1379.0	1379.0
22.5°	1212.6	1293.2	1319.2	1321.8	1329.7	1329.7	1332.2	1341.3	1353.0	1354.3	1354.3
25°	1160.7	1264.6	1286.7	1294.5	1302.3	1306.2	1310.1	1315.3	1319.2	1317.9	1319.2
27.5°	1106.1	1228.2	1256.8	1262.0	1272.4	1276.4	1281.5	1282.9	1284.1	1288.0	1285.5
30°	1045.0	1177.5	1220.5	1225.7	1242.5	1245.2	1239.9	1242.5	1249.0	1251.7	1254.3
32.5°	976.1	1102.1	1182.8	1194.5	1210.1	1202.2	1201.0	1204.9	1215.2	1215.2	1217.8
35°	882.5	1043.7	1147.7	1158.1	1169.8	1160.7	1165.9	1167.2	1173.7	1177.5	1176.3
37.5°	779.9	993.0	1111.2	1119.1	1128.2	1116.5	1124.2	1128.2	1133.3	1130.7	1130.7
40°	688.9	913.7	1068.4	1073.6	1081.4	1072.3	1080.0	1082.7	1085.3	1082.7	1081.4
42.5°	621.2	826.7	1022.9	1029.4	1024.1	1030.7	1033.2	1038.5	1034.6	1029.4	1029.4
45°	569.3	803.2	973.5	981.3	973.5	983.9	987.8	987.8	976.1	973.5	972.2
47.5°	552.4	756.4	924.1	924.1	920.2	933.2	939.7	930.6	918.9	915.0	915.0
50°	551.1	704.5	856.5	851.4	869.5	885.1	878.6	869.5	860.4	846.1	846.1
52.5°	500.4	640.8	769.5	789.0	817.5	826.7	816.2	807.2	791.6	785.0	779.9
55°	464.0	574.5	690.1	729.2	759.0	770.7	751.3	742.2	718.7	714.8	712.2
57.5°	456.2	478.3	617.3	666.8	703.1	701.8	690.1	673.3	653.8	649.9	648.6
60°	418.5	345.7	539.3	597.9	635.6	631.7	621.2	605.6	587.5	584.9	582.3
62.5°	379.6	250.9	451.0	517.3	570.5	569.3	560.2	536.8	523.7	517.3	512.1
65°	322.3	210.6	321.0	430.2	506.9	509.5	490.0	473.1	458.8	451.0	449.7
67.5°	245.6	171.6	217.1	358.7	445.8	443.2	418.5	410.8	392.5	388.7	380.8
70°	182.0	114.3	150.8	291.2	386.0	379.6	360.0	351.0	334.0	324.9	319.8
72.5°	150.8	92.2	110.5	226.2	324.9	317.2	300.2	289.8	275.6	267.7	262.5
75°	122.2	97.5	84.5	167.6	263.9	258.6	243.0	232.7	220.9	210.6	211.8
77.5°	89.7	91.0	67.5	123.5	209.3	201.5	192.3	179.4	174.1	163.8	163.8
80°	67.5	71.5	50.7	84.5	150.8	150.8	142.9	133.9	124.8	119.6	119.6
82.5°	45.4	45.4	37.7	53.3	102.7	98.7	93.6	91.0	85.8	83.1	83.1
85°	20.8	26.0	23.4	32.5	55.9	58.5	58.5	55.9	54.6	52.0	53.3
87.5°	6.5	11.7	14.3	18.2	28.6	29.9	31.2	31.2	31.2	32.5	32.5
90°	1.9	3.5	5.0	5.4	8.5	12.7	14.7	13.1	9.8	7.4	7.4
92.5°	7.8	20.9	34.2	37.5	52.7	73.0	83.0	72.8	52.3	36.9	35.5
95°	18.6	42.7	67.0	73.0	129.6	205.0	242.8	216.7	164.4	125.2	120.7
97.5°	32.3	53.6	74.8	80.1	174.5	300.4	363.4	346.9	313.9	289.1	280.6
100°	42.7	62.0	81.3	86.1	190.9	330.5	400.4	401.7	404.1	405.9	395.8
102.5°	51.6	69.7	87.7	92.2	198.5	340.1	411.0	432.0	474.0	505.6	497.0
105°	66.8	82.1	97.4	101.2	204.1	341.2	409.8	457.0	551.4	622.1	617.4
107.5°	82.3	96.5	110.8	114.3	205.0	326.0	386.4	452.2	583.9	682.7	683.8
110°	92.8	105.6	118.5	121.7	203.5	312.5	367.1	440.6	587.8	698.2	703.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	103.1	115.3	127.5	130.6	203.6	300.8	349.4	424.7	575.3	688.3	695.7
115°	118.6	129.8	141.2	144.0	205.4	287.3	328.2	400.8	545.9	654.8	665.0
117.5°	133.9	144.2	154.5	157.1	209.3	278.9	313.7	379.2	510.1	608.3	619.8
120°	142.8	152.5	162.2	164.6	212.4	276.1	307.9	367.6	487.3	577.0	588.1
122.5°	151.6	161.3	171.1	173.5	216.9	274.5	303.4	357.3	465.0	545.8	556.8
125°	165.0	173.9	182.8	185.0	222.9	273.4	298.5	344.3	435.9	504.5	514.5
127.5°	175.9	184.8	193.8	196.0	228.9	272.6	294.5	333.8	412.4	471.3	479.8
130°	181.7	191.4	201.0	203.4	233.2	273.1	292.9	327.9	397.9	450.3	458.1
132.5°	187.7	197.4	207.0	209.4	236.8	273.4	291.6	322.9	385.5	432.5	439.5
135°	196.6	205.4	214.2	216.5	240.7	273.1	289.2	315.5	367.9	407.3	413.3
137.5°	205.7	214.4	223.2	225.4	246.5	274.7	288.9	311.0	355.3	388.6	393.5
140°	213.3	221.3	229.4	231.4	250.1	275.0	287.5	306.7	345.0	373.6	378.3
142.5°	219.2	226.6	234.0	235.9	253.1	276.1	287.5	304.4	338.0	363.2	367.2
145°	228.1	234.6	241.0	242.6	257.0	276.1	285.6	299.3	326.8	347.5	350.5
147.5°	237.0	243.3	249.6	251.2	262.6	277.9	285.6	296.4	318.0	334.2	336.7
150°	242.8	248.5	254.2	255.6	265.6	278.9	285.6	294.7	313.0	326.6	328.7
152.5°	248.8	253.1	257.5	258.5	267.5	279.6	285.6	293.3	308.9	320.6	322.2
155°	257.8	261.0	264.1	264.9	271.8	281.0	285.6	291.8	304.2	313.5	314.4
157.5°	264.3	267.4	270.5	271.3	276.1	282.4	285.6	290.4	300.0	307.3	307.9
160°	268.8	271.2	273.6	274.2	278.0	283.0	285.6	289.7	298.0	304.2	304.6
162.5°	273.3	275.1	276.8	277.3	280.0	283.7	285.6	289.1	296.0	301.3	301.6
165°	278.2	279.8	281.5	281.9	283.1	284.8	285.6	288.1	293.0	296.8	297.2
167.5°	282.7	283.4	284.2	284.4	285.5	286.8	287.5	289.1	292.4	294.9	295.1
170°	285.6	286.3	287.1	287.3	287.4	287.5	287.5	289.1	292.4	294.9	294.9
172.5°	287.1	287.3	287.5	287.5	287.5	287.5	287.5	288.8	291.4	293.3	293.1
175°	289.2	289.2	289.2	289.2	288.7	287.9	287.5	288.3	289.9	291.2	291.2
177.5°	289.2	289.2	289.2	289.2	288.8	288.2	287.9	288.6	289.8	290.8	290.6
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1408.9	1405.0	1408.9	1406.3	1407.6	1403.7	1392.0	1388.1	1392.0	1395.9	1395.9
5°	1425.8	1423.2	1425.8	1425.8	1424.5	1421.9	1408.9	1406.3	1408.9	1410.2	1407.6
7.5°	1431.0	1427.1	1431.0	1428.4	1428.4	1425.8	1412.8	1410.2	1411.5	1415.4	1411.5
10°	1431.0	1427.1	1431.0	1429.7	1428.4	1425.8	1412.8	1407.6	1407.6	1411.5	1407.6
12.5°	1424.5	1421.9	1424.5	1421.9	1421.9	1419.3	1406.3	1401.1	1402.4	1403.7	1398.5
15°	1414.1	1410.2	1414.1	1411.5	1412.8	1408.9	1394.6	1389.4	1389.4	1392.0	1382.9
17.5°	1398.5	1393.3	1398.5	1397.2	1395.9	1393.3	1380.3	1375.1	1373.8	1375.1	1368.6
20°	1380.3	1376.4	1380.3	1379.0	1379.0	1373.8	1360.8	1354.3	1354.3	1354.3	1347.8
22.5°	1351.8	1347.8	1351.8	1354.3	1354.3	1353.0	1341.3	1332.2	1329.7	1329.7	1321.8
25°	1319.2	1315.3	1319.2	1319.2	1317.9	1319.2	1315.3	1310.1	1306.2	1302.3	1294.5
27.5°	1288.0	1285.5	1288.0	1285.5	1288.0	1284.1	1282.9	1281.5	1276.4	1272.4	1262.0
30°	1256.8	1254.3	1256.8	1254.3	1251.7	1249.0	1242.5	1239.9	1245.2	1242.5	1225.7
32.5°	1217.8	1215.2	1217.8	1217.8	1215.2	1215.2	1204.9	1201.0	1202.2	1210.1	1194.5
35°	1177.5	1173.7	1177.5	1176.3	1177.5	1173.7	1167.2	1165.9	1160.7	1169.8	1158.1
37.5°	1130.7	1126.9	1130.7	1130.7	1130.7	1133.3	1128.2	1124.2	1116.5	1128.2	1119.1
40°	1082.7	1077.4	1082.7	1081.4	1082.7	1085.3	1082.7	1080.0	1072.3	1081.4	1073.6
42.5°	1028.1	1026.8	1028.1	1029.4	1029.4	1034.6	1038.5	1033.2	1030.7	1024.1	1029.4
45°	969.6	967.0	969.6	972.2	973.5	976.1	987.8	987.8	983.9	973.5	981.3
47.5°	907.2	900.7	907.2	915.0	915.0	918.9	930.6	939.7	933.2	920.2	924.1
50°	840.9	842.3	840.9	846.1	846.1	860.4	869.5	878.6	885.1	869.5	851.4
52.5°	776.0	774.6	776.0	779.9	785.0	791.6	807.2	816.2	826.7	817.5	789.0
55°	711.0	713.6	711.0	712.2	714.8	718.7	742.2	751.3	770.7	759.0	729.2
57.5°	645.9	642.1	645.9	648.6	649.9	653.8	673.3	690.1	701.8	703.1	666.8
60°	570.5	565.4	570.5	582.3	584.9	587.5	605.6	621.2	631.7	635.6	597.9
62.5°	504.3	495.2	504.3	512.1	517.3	523.7	536.8	560.2	569.3	570.5	517.3
65°	434.1	430.2	434.1	449.7	451.0	458.8	473.1	490.0	509.5	506.9	430.2
67.5°	370.4	370.4	370.4	380.8	388.7	392.5	410.8	418.5	443.2	445.8	358.7
70°	311.9	310.7	311.9	319.8	324.9	334.0	351.0	360.0	379.6	386.0	291.2
72.5°	256.0	254.8	256.0	262.5	267.7	275.6	289.8	300.2	317.2	324.9	226.2
75°	206.7	204.1	206.7	211.8	210.6	220.9	232.7	243.0	258.6	263.9	167.6
77.5°	158.5	158.5	158.5	163.8	163.8	174.1	179.4	192.3	201.5	209.3	123.5
80°	118.3	117.0	118.3	119.6	119.6	124.8	133.9	142.9	150.8	150.8	84.5
82.5°	83.1	80.6	83.1	83.1	83.1	85.8	91.0	93.6	98.7	102.7	53.3
85°	52.0	52.0	52.0	53.3	52.0	54.6	55.9	58.5	58.5	55.9	32.5
87.5°	33.8	32.5	33.8	32.5	32.5	31.2	31.2	31.2	29.9	28.6	18.2
90°	7.4	7.4	7.4	7.4	7.4	9.8	13.1	14.7	12.7	8.5	5.4
92.5°	29.6	23.6	29.6	35.5	36.9	52.3	72.8	83.0	73.0	52.7	37.5
95°	103.0	85.2	103.0	120.7	125.2	164.4	216.7	242.8	205.0	129.6	73.0
97.5°	246.7	212.9	246.7	280.6	289.1	313.9	346.9	363.4	300.4	174.5	80.1
100°	355.5	315.2	355.5	395.8	405.9	404.1	401.7	400.4	330.5	190.9	86.1
102.5°	462.5	428.0	462.5	497.0	505.6	474.0	432.0	411.0	340.1	198.5	92.2
105°	598.9	580.3	598.9	617.4	622.1	551.4	457.0	409.8	341.2	204.1	101.2
107.5°	688.3	692.7	688.3	683.8	682.7	583.9	452.2	386.4	326.0	205.0	114.3
110°	722.3	741.7	722.3	703.0	698.2	587.8	440.6	367.1	312.5	203.5	121.7



TEST NUMBER: P933900

CATALOG NUMBER: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	725.4	755.0	725.4	695.7	688.3	575.3	424.7	349.4	300.8	203.6	130.6
115°	706.2	747.3	706.2	665.0	654.8	545.9	400.8	328.2	287.3	205.4	144.0
117.5°	665.4	711.1	665.4	619.8	608.3	510.1	379.2	313.7	278.9	209.3	157.1
120°	632.5	676.8	632.5	588.1	577.0	487.3	367.6	307.9	276.1	212.4	164.6
122.5°	600.5	644.2	600.5	556.8	545.8	465.0	357.3	303.4	274.5	216.9	173.5
125°	554.8	595.2	554.8	514.5	504.5	435.9	344.3	298.5	273.4	222.9	185.0
127.5°	513.8	547.8	513.8	479.8	471.3	412.4	333.8	294.5	272.6	228.9	196.0
130°	489.5	520.9	489.5	458.1	450.3	397.9	327.9	292.9	273.1	233.2	203.4
132.5°	467.6	495.7	467.6	439.5	432.5	385.5	322.9	291.6	273.4	236.8	209.4
135°	437.5	461.7	437.5	413.3	407.3	367.9	315.5	289.2	273.1	240.7	216.5
137.5°	413.4	433.2	413.4	393.5	388.6	355.3	311.0	288.9	274.7	246.5	225.4
140°	396.8	415.4	396.8	378.3	373.6	345.0	306.7	287.5	275.0	250.1	231.4
142.5°	383.1	399.0	383.1	367.2	363.2	338.0	304.4	287.5	276.1	253.1	235.9
145°	362.6	374.6	362.6	350.5	347.5	326.8	299.3	285.6	276.1	257.0	242.6
147.5°	346.7	356.8	346.7	336.7	334.2	318.0	296.4	285.6	277.9	262.6	251.2
150°	336.8	345.0	336.8	328.7	326.6	313.0	294.7	285.6	278.9	265.6	255.6
152.5°	328.3	334.4	328.3	322.2	320.6	308.9	293.3	285.6	279.6	267.5	258.5
155°	318.5	322.6	318.5	314.4	313.5	304.2	291.8	285.6	281.0	271.8	264.9
157.5°	310.9	313.7	310.9	307.9	307.3	300.0	290.4	285.6	282.4	276.1	271.3
160°	306.2	307.9	306.2	304.6	304.2	298.0	289.7	285.6	283.0	278.0	274.2
162.5°	303.2	304.8	303.2	301.6	301.3	296.0	289.1	285.6	283.7	280.0	277.3
165°	298.8	300.5	298.8	297.2	296.8	293.0	288.1	285.6	284.8	283.1	281.9
167.5°	295.7	296.4	295.7	295.1	294.9	292.4	289.1	287.5	286.8	285.5	284.4
170°	294.9	294.9	294.9	294.9	294.9	292.4	289.1	287.5	287.5	287.4	287.3
172.5°	292.5	292.0	292.5	293.1	293.3	291.4	288.8	287.5	287.5	287.5	287.5
175°	291.2	291.2	291.2	291.2	291.2	289.9	288.3	287.5	287.9	288.7	289.2
177.5°	289.9	289.2	289.9	290.6	290.8	289.8	288.6	287.9	288.2	288.8	289.2
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2



TEST NUMBER: P933900

CATALOG NUMBER: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1393.3	1385.5	1385.5	1372.5	1367.4	1363.4	1356.9	1337.4	1332.2	1327.0	1334.8
5°	1405.0	1390.7	1380.3	1356.9	1337.4	1329.7	1305.0	1258.1	1226.9	1203.5	1190.5
7.5°	1407.6	1389.4	1369.9	1333.5	1286.7	1265.9	1190.5	1104.8	1081.4	1060.6	1047.6
10°	1405.0	1384.2	1356.9	1302.3	1191.9	1155.4	1080.0	1024.1	1009.9	1006.0	1009.9
12.5°	1395.9	1376.4	1338.7	1247.8	1093.0	1068.4	1024.1	991.7	989.1	995.6	1030.7
15°	1380.3	1362.1	1317.9	1174.9	1038.5	1020.3	989.1	977.4	991.7	1037.2	1142.5
17.5°	1364.7	1343.9	1289.4	1103.5	996.9	983.9	961.8	985.2	1065.8	1126.9	1161.9
20°	1343.9	1319.2	1256.8	1051.5	967.0	955.3	944.9	1050.2	1111.2	1133.3	1152.8
22.5°	1319.2	1293.2	1212.6	1015.1	935.8	926.8	933.2	1086.5	1111.2	1126.9	1143.7
25°	1286.7	1264.6	1160.7	986.5	911.2	900.7	925.4	1082.7	1097.0	1100.9	1134.7
27.5°	1256.8	1228.2	1106.1	960.5	881.2	877.3	931.9	1065.8	1076.2	1080.0	1116.5
30°	1220.5	1177.5	1045.0	933.2	850.0	848.7	933.2	1045.0	1042.4	1052.8	1089.2
32.5°	1182.8	1102.1	976.1	899.4	820.2	818.8	924.1	1013.8	1011.2	1025.5	1052.8
35°	1147.7	1043.7	882.5	860.4	782.5	783.7	902.0	977.4	978.7	991.7	1008.6
37.5°	1111.2	993.0	779.9	817.5	746.0	746.0	872.1	943.6	941.0	944.9	968.3
40°	1068.4	913.7	688.9	761.6	712.2	708.3	835.8	907.2	898.1	896.8	929.3
42.5°	1022.9	826.7	621.2	687.6	673.3	668.0	791.6	863.0	846.1	850.0	891.6
45°	973.5	803.2	569.3	581.0	633.0	629.1	743.4	812.3	800.6	811.1	853.9
47.5°	924.1	756.4	552.4	482.2	590.1	588.8	690.1	762.9	756.4	766.9	812.3
50°	856.5	704.5	551.1	413.3	542.0	547.2	626.5	714.8	714.8	723.9	772.0
52.5°	769.5	640.8	500.4	374.3	486.1	501.7	570.5	673.3	675.9	685.0	727.8
55°	690.1	574.5	464.0	344.4	419.8	453.6	516.0	630.3	635.6	644.7	683.6
57.5°	617.3	478.3	456.2	309.3	358.7	391.2	467.9	588.8	591.4	599.1	636.8
60°	539.3	345.7	418.5	271.6	305.4	330.1	423.7	539.3	548.5	553.7	586.1
62.5°	451.0	250.9	379.6	245.6	279.5	284.6	387.3	492.6	504.3	508.2	527.7
65°	321.0	210.6	322.3	223.5	252.1	253.5	348.4	444.5	454.9	461.4	475.7
67.5°	217.1	171.6	245.6	202.7	231.4	232.7	310.7	388.7	402.9	408.1	417.3
70°	150.8	114.3	182.0	180.6	207.9	210.6	270.4	337.9	351.0	354.8	360.0
72.5°	110.5	92.2	150.8	162.5	183.2	185.9	228.8	280.7	293.7	297.7	300.2
75°	84.5	97.5	122.2	141.7	156.0	157.3	187.1	228.8	237.9	240.4	241.8
77.5°	67.5	91.0	89.7	114.3	127.3	124.8	146.9	176.7	184.6	184.6	184.6
80°	50.7	71.5	67.5	81.9	93.6	91.0	105.2	126.1	128.7	131.3	129.9
82.5°	37.7	45.4	45.4	52.0	62.4	59.8	70.2	81.9	81.9	81.9	84.5
85°	23.4	26.0	20.8	27.3	35.1	33.8	39.0	44.2	45.4	45.4	42.9
87.5°	14.3	11.7	6.5	10.4	15.6	15.6	18.2	19.5	18.2	18.2	18.2
90°	5.0	3.5	1.9	3.5	5.0	5.4	8.5	12.7	14.7	13.1	9.8
92.5°	34.2	20.9	7.8	20.9	34.2	37.5	52.7	73.0	83.0	72.8	52.3
95°	67.0	42.7	18.6	42.7	67.0	73.0	129.6	205.0	242.8	216.7	164.4
97.5°	74.8	53.6	32.3	53.6	74.8	80.1	174.5	300.4	363.4	346.9	313.9
100°	81.3	62.0	42.7	62.0	81.3	86.1	190.9	330.5	400.4	401.7	404.1
102.5°	87.7	69.7	51.6	69.7	87.7	92.2	198.5	340.1	411.0	432.0	474.0
105°	97.4	82.1	66.8	82.1	97.4	101.2	204.1	341.2	409.8	457.0	551.4
107.5°	110.8	96.5	82.3	96.5	110.8	114.3	205.0	326.0	386.4	452.2	583.9
110°	118.5	105.6	92.8	105.6	118.5	121.7	203.5	312.5	367.1	440.6	587.8



TEST NUMBER: P933900

CATALOG NUMBER: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	127.5	115.3	103.1	115.3	127.5	130.6	203.6	300.8	349.4	424.7	575.3
115°	141.2	129.8	118.6	129.8	141.2	144.0	205.4	287.3	328.2	400.8	545.9
117.5°	154.5	144.2	133.9	144.2	154.5	157.1	209.3	278.9	313.7	379.2	510.1
120°	162.2	152.5	142.8	152.5	162.2	164.6	212.4	276.1	307.9	367.6	487.3
122.5°	171.1	161.3	151.6	161.3	171.1	173.5	216.9	274.5	303.4	357.3	465.0
125°	182.8	173.9	165.0	173.9	182.8	185.0	222.9	273.4	298.5	344.3	435.9
127.5°	193.8	184.8	175.9	184.8	193.8	196.0	228.9	272.6	294.5	333.8	412.4
130°	201.0	191.4	181.7	191.4	201.0	203.4	233.2	273.1	292.9	327.9	397.9
132.5°	207.0	197.4	187.7	197.4	207.0	209.4	236.8	273.4	291.6	322.9	385.5
135°	214.2	205.4	196.6	205.4	214.2	216.5	240.7	273.1	289.2	315.5	367.9
137.5°	223.2	214.4	205.7	214.4	223.2	225.4	246.5	274.7	288.9	311.0	355.3
140°	229.4	221.3	213.3	221.3	229.4	231.4	250.1	275.0	287.5	306.7	345.0
142.5°	234.0	226.6	219.2	226.6	234.0	235.9	253.1	276.1	287.5	304.4	338.0
145°	241.0	234.6	228.1	234.6	241.0	242.6	257.0	276.1	285.6	299.3	326.8
147.5°	249.6	243.3	237.0	243.3	249.6	251.2	262.6	277.9	285.6	296.4	318.0
150°	254.2	248.5	242.8	248.5	254.2	255.6	265.6	278.9	285.6	294.7	313.0
152.5°	257.5	253.1	248.8	253.1	257.5	258.5	267.5	279.6	285.6	293.3	308.9
155°	264.1	261.0	257.8	261.0	264.1	264.9	271.8	281.0	285.6	291.8	304.2
157.5°	270.5	267.4	264.3	267.4	270.5	271.3	276.1	282.4	285.6	290.4	300.0
160°	273.6	271.2	268.8	271.2	273.6	274.2	278.0	283.0	285.6	289.7	298.0
162.5°	276.8	275.1	273.3	275.1	276.8	277.3	280.0	283.7	285.6	289.1	296.0
165°	281.5	279.8	278.2	279.8	281.5	281.9	283.1	284.8	285.6	288.1	293.0
167.5°	284.2	283.4	282.7	283.4	284.2	284.4	285.5	286.8	287.5	289.1	292.4
170°	287.1	286.3	285.6	286.3	287.1	287.3	287.4	287.5	287.5	289.1	292.4
172.5°	287.5	287.3	287.1	287.3	287.5	287.5	287.5	287.5	287.5	288.8	291.4
175°	289.2	289.2	289.2	289.2	289.2	289.2	288.7	287.9	287.5	288.3	289.9
177.5°	289.2	289.2	289.2	289.2	289.2	289.2	288.8	288.2	287.9	288.6	289.8
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2



TEST NUMBER: P933900
 CATALOG NUMBER: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1325.7	1321.8	1327.0	1312.7	1327.0	1321.8	1325.7	1334.8	1327.0	1332.2	1337.4
5°	1163.3	1156.8	1136.0	1119.1	1136.0	1156.8	1163.3	1190.5	1203.5	1226.9	1258.1
7.5°	1039.7	1034.6	1029.4	1019.0	1029.4	1034.6	1039.7	1047.6	1060.6	1081.4	1104.8
10°	1012.5	1013.8	1021.6	1020.3	1021.6	1013.8	1012.5	1009.9	1006.0	1009.9	1024.1
12.5°	1082.7	1094.4	1137.2	1134.7	1137.2	1094.4	1082.7	1030.7	995.6	989.1	991.7
15°	1163.3	1167.2	1176.3	1177.5	1176.3	1167.2	1163.3	1142.5	1037.2	991.7	977.4
17.5°	1171.0	1172.4	1178.9	1178.9	1178.9	1172.4	1171.0	1161.9	1126.9	1065.8	985.2
20°	1164.5	1167.2	1180.1	1182.8	1180.1	1167.2	1164.5	1152.8	1133.3	1111.2	1050.2
22.5°	1161.9	1167.2	1177.5	1176.3	1177.5	1167.2	1161.9	1143.7	1126.9	1111.2	1086.5
25°	1148.9	1148.9	1150.3	1151.6	1150.3	1148.9	1148.9	1134.7	1100.9	1097.0	1082.7
27.5°	1121.6	1124.2	1132.1	1130.7	1132.1	1124.2	1121.6	1116.5	1080.0	1076.2	1065.8
30°	1097.0	1094.4	1087.9	1082.7	1087.9	1094.4	1097.0	1089.2	1052.8	1042.4	1045.0
32.5°	1055.3	1048.8	1042.4	1038.5	1042.4	1048.8	1055.3	1052.8	1025.5	1011.2	1013.8
35°	1006.0	1007.3	1006.0	1002.0	1006.0	1007.3	1006.0	1008.6	991.7	978.7	977.4
37.5°	970.9	973.5	972.2	967.0	972.2	973.5	970.9	968.3	944.9	941.0	943.6
40°	934.5	935.8	934.5	930.6	934.5	935.8	934.5	929.3	896.8	898.1	907.2
42.5°	899.4	898.1	894.2	891.6	894.2	898.1	899.4	891.6	850.0	846.1	863.0
45°	859.1	860.4	852.6	848.7	852.6	860.4	859.1	853.9	811.1	800.6	812.3
47.5°	818.8	818.8	812.3	808.4	812.3	818.8	818.8	812.3	766.9	756.4	762.9
50°	776.0	774.6	765.5	764.3	765.5	774.6	776.0	772.0	723.9	714.8	714.8
52.5°	726.6	726.6	727.8	730.4	727.8	726.6	726.6	727.8	685.0	675.9	673.3
55°	683.6	685.0	694.1	696.6	694.1	685.0	683.6	683.6	644.7	635.6	630.3
57.5°	639.4	639.4	645.9	645.9	645.9	639.4	639.4	636.8	599.1	591.4	588.8
60°	588.8	591.4	596.6	595.3	596.6	591.4	588.8	586.1	553.7	548.5	539.3
62.5°	535.5	538.1	539.3	536.8	539.3	538.1	535.5	527.7	508.2	504.3	492.6
65°	479.6	482.2	483.5	480.9	483.5	482.2	479.6	475.7	461.4	454.9	444.5
67.5°	422.4	421.1	419.8	425.0	419.8	421.1	422.4	417.3	408.1	402.9	388.7
70°	364.0	364.0	362.6	365.2	362.6	364.0	364.0	360.0	354.8	351.0	337.9
72.5°	301.6	300.2	305.4	301.6	305.4	300.2	301.6	300.2	297.7	293.7	280.7
75°	240.4	243.0	240.4	244.4	240.4	243.0	240.4	241.8	240.4	237.9	228.8
77.5°	183.2	185.9	183.2	183.2	183.2	185.9	183.2	184.6	184.6	184.6	176.7
80°	129.9	128.7	128.7	127.3	128.7	128.7	129.9	129.9	131.3	128.7	126.1
82.5°	83.1	81.9	81.9	84.5	81.9	81.9	83.1	84.5	81.9	81.9	81.9
85°	45.4	46.8	44.2	44.2	44.2	46.8	45.4	42.9	45.4	45.4	44.2
87.5°	16.9	15.6	15.6	15.6	15.6	15.6	16.9	18.2	18.2	18.2	19.5
90°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.8	13.1	14.7	12.7
92.5°	36.9	35.5	29.6	23.6	29.6	35.5	36.9	52.3	72.8	83.0	73.0
95°	125.2	120.7	103.0	85.2	103.0	120.7	125.2	164.4	216.7	242.8	205.0
97.5°	289.1	280.6	246.7	212.9	246.7	280.6	289.1	313.9	346.9	363.4	300.4
100°	405.9	395.8	355.5	315.2	355.5	395.8	405.9	404.1	401.7	400.4	330.5
102.5°	505.6	497.0	462.5	428.0	462.5	497.0	505.6	474.0	432.0	411.0	340.1
105°	622.1	617.4	598.9	580.3	598.9	617.4	622.1	551.4	457.0	409.8	341.2
107.5°	682.7	683.8	688.3	692.7	688.3	683.8	682.7	583.9	452.2	386.4	326.0
110°	698.2	703.0	722.3	741.7	722.3	703.0	698.2	587.8	440.6	367.1	312.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	688.3	695.7	725.4	755.0	725.4	695.7	688.3	575.3	424.7	349.4	300.8
115°	654.8	665.0	706.2	747.3	706.2	665.0	654.8	545.9	400.8	328.2	287.3
117.5°	608.3	619.8	665.4	711.1	665.4	619.8	608.3	510.1	379.2	313.7	278.9
120°	577.0	588.1	632.5	676.8	632.5	588.1	577.0	487.3	367.6	307.9	276.1
122.5°	545.8	556.8	600.5	644.2	600.5	556.8	545.8	465.0	357.3	303.4	274.5
125°	504.5	514.5	554.8	595.2	554.8	514.5	504.5	435.9	344.3	298.5	273.4
127.5°	471.3	479.8	513.8	547.8	513.8	479.8	471.3	412.4	333.8	294.5	272.6
130°	450.3	458.1	489.5	520.9	489.5	458.1	450.3	397.9	327.9	292.9	273.1
132.5°	432.5	439.5	467.6	495.7	467.6	439.5	432.5	385.5	322.9	291.6	273.4
135°	407.3	413.3	437.5	461.7	437.5	413.3	407.3	367.9	315.5	289.2	273.1
137.5°	388.6	393.5	413.4	433.2	413.4	393.5	388.6	355.3	311.0	288.9	274.7
140°	373.6	378.3	396.8	415.4	396.8	378.3	373.6	345.0	306.7	287.5	275.0
142.5°	363.2	367.2	383.1	399.0	383.1	367.2	363.2	338.0	304.4	287.5	276.1
145°	347.5	350.5	362.6	374.6	362.6	350.5	347.5	326.8	299.3	285.6	276.1
147.5°	334.2	336.7	346.7	356.8	346.7	336.7	334.2	318.0	296.4	285.6	277.9
150°	326.6	328.7	336.8	345.0	336.8	328.7	326.6	313.0	294.7	285.6	278.9
152.5°	320.6	322.2	328.3	334.4	328.3	322.2	320.6	308.9	293.3	285.6	279.6
155°	313.5	314.4	318.5	322.6	318.5	314.4	313.5	304.2	291.8	285.6	281.0
157.5°	307.3	307.9	310.9	313.7	310.9	307.9	307.3	300.0	290.4	285.6	282.4
160°	304.2	304.6	306.2	307.9	306.2	304.6	304.2	298.0	289.7	285.6	283.0
162.5°	301.3	301.6	303.2	304.8	303.2	301.6	301.3	296.0	289.1	285.6	283.7
165°	296.8	297.2	298.8	300.5	298.8	297.2	296.8	293.0	288.1	285.6	284.8
167.5°	294.9	295.1	295.7	296.4	295.7	295.1	294.9	292.4	289.1	287.5	286.8
170°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	292.4	289.1	287.5	287.5
172.5°	293.3	293.1	292.5	292.0	292.5	293.1	293.3	291.4	288.8	287.5	287.5
175°	291.2	291.2	291.2	291.2	291.2	291.2	291.2	289.9	288.3	287.5	287.9
177.5°	290.8	290.6	289.9	289.2	289.9	290.6	290.8	289.8	288.6	287.9	288.2
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1356.9	1363.4	1367.4	1372.5	1385.5
5°	1305.0	1329.7	1337.4	1356.9	1380.3
7.5°	1190.5	1265.9	1286.7	1333.5	1369.9
10°	1080.0	1155.4	1191.9	1302.3	1356.9
12.5°	1024.1	1068.4	1093.0	1247.8	1338.7
15°	989.1	1020.3	1038.5	1174.9	1317.9
17.5°	961.8	983.9	996.9	1103.5	1289.4
20°	944.9	955.3	967.0	1051.5	1256.8
22.5°	933.2	926.8	935.8	1015.1	1212.6
25°	925.4	900.7	911.2	986.5	1160.7
27.5°	931.9	877.3	881.2	960.5	1106.1
30°	933.2	848.7	850.0	933.2	1045.0
32.5°	924.1	818.8	820.2	899.4	976.1
35°	902.0	783.7	782.5	860.4	882.5
37.5°	872.1	746.0	746.0	817.5	779.9
40°	835.8	708.3	712.2	761.6	688.9
42.5°	791.6	668.0	673.3	687.6	621.2
45°	743.4	629.1	633.0	581.0	569.3
47.5°	690.1	588.8	590.1	482.2	552.4
50°	626.5	547.2	542.0	413.3	551.1
52.5°	570.5	501.7	486.1	374.3	500.4
55°	516.0	453.6	419.8	344.4	464.0
57.5°	467.9	391.2	358.7	309.3	456.2
60°	423.7	330.1	305.4	271.6	418.5
62.5°	387.3	284.6	279.5	245.6	379.6
65°	348.4	253.5	252.1	223.5	322.3
67.5°	310.7	232.7	231.4	202.7	245.6
70°	270.4	210.6	207.9	180.6	182.0
72.5°	228.8	185.9	183.2	162.5	150.8
75°	187.1	157.3	156.0	141.7	122.2
77.5°	146.9	124.8	127.3	114.3	89.7
80°	105.2	91.0	93.6	81.9	67.5
82.5°	70.2	59.8	62.4	52.0	45.4
85°	39.0	33.8	35.1	27.3	20.8
87.5°	18.2	15.6	15.6	10.4	6.5
90°	8.5	5.4	5.0	3.5	1.9
92.5°	52.7	37.5	34.2	20.9	7.8
95°	129.6	73.0	67.0	42.7	18.6
97.5°	174.5	80.1	74.8	53.6	32.3
100°	190.9	86.1	81.3	62.0	42.7
102.5°	198.5	92.2	87.7	69.7	51.6
105°	204.1	101.2	97.4	82.1	66.8
107.5°	205.0	114.3	110.8	96.5	82.3
110°	203.5	121.7	118.5	105.6	92.8



TEST NUMBER: P933900

CATALOG NUMBER: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	203.6	130.6	127.5	115.3	103.1
115°	205.4	144.0	141.2	129.8	118.6
117.5°	209.3	157.1	154.5	144.2	133.9
120°	212.4	164.6	162.2	152.5	142.8
122.5°	216.9	173.5	171.1	161.3	151.6
125°	222.9	185.0	182.8	173.9	165.0
127.5°	228.9	196.0	193.8	184.8	175.9
130°	233.2	203.4	201.0	191.4	181.7
132.5°	236.8	209.4	207.0	197.4	187.7
135°	240.7	216.5	214.2	205.4	196.6
137.5°	246.5	225.4	223.2	214.4	205.7
140°	250.1	231.4	229.4	221.3	213.3
142.5°	253.1	235.9	234.0	226.6	219.2
145°	257.0	242.6	241.0	234.6	228.1
147.5°	262.6	251.2	249.6	243.3	237.0
150°	265.6	255.6	254.2	248.5	242.8
152.5°	267.5	258.5	257.5	253.1	248.8
155°	271.8	264.9	264.1	261.0	257.8
157.5°	276.1	271.3	270.5	267.4	264.3
160°	278.0	274.2	273.6	271.2	268.8
162.5°	280.0	277.3	276.8	275.1	273.3
165°	283.1	281.9	281.5	279.8	278.2
167.5°	285.5	284.4	284.2	283.4	282.7
170°	287.4	287.3	287.1	286.3	285.6
172.5°	287.5	287.5	287.5	287.3	287.1
175°	288.7	289.2	289.2	289.2	289.2
177.5°	288.8	289.2	289.2	289.2	289.2
180°	289.2	289.2	289.2	289.2	289.2



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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	12.56	13.58	13.37	14.42	15.45	15.40	16.42	16.21	17.26	18.29
	3H	13.05	13.97	13.88	14.81	15.87	16.76	17.68	17.59	18.52	19.58
	4H	13.25	14.12	14.09	14.97	16.04	17.21	18.08	18.06	18.93	20.00
	6H	13.38	14.18	14.23	15.03	16.12	17.51	18.31	18.36	19.17	20.25
	8H	13.38	14.14	14.25	15.02	16.10	17.59	18.35	18.45	19.23	20.31
	12H	13.36	14.08	14.23	14.95	16.06	17.64	18.36	18.50	19.23	20.34
4H	2H	13.62	14.48	14.46	15.33	16.40	15.83	16.69	16.68	17.55	18.62
	3H	14.66	15.38	15.52	16.26	17.35	17.35	18.07	18.21	18.96	20.04
	4H	14.94	15.60	15.81	16.48	17.59	17.89	18.55	18.76	19.43	20.54
	6H	15.08	15.64	15.96	16.55	17.66	18.27	18.83	19.15	19.74	20.85
	8H	15.09	15.61	15.97	16.51	17.64	18.38	18.91	19.27	19.81	20.93
	12H	15.06	15.54	15.97	16.46	17.59	18.44	18.92	19.35	19.84	20.97
8H	4H	15.41	15.94	16.30	16.84	17.97	18.03	18.56	18.92	19.46	20.58
	6H	15.68	16.12	16.59	17.06	18.19	18.47	18.91	19.39	19.85	20.98
	8H	15.72	16.11	16.65	17.04	18.19	18.63	19.01	19.55	19.95	21.09
	12H	15.71	16.06	16.64	16.98	18.18	18.73	19.07	19.66	20.00	21.20
12H	4H	15.42	15.90	16.33	16.82	17.95	18.00	18.48	18.91	19.39	20.53
	6H	15.74	16.13	16.67	17.06	18.21	18.47	18.86	19.40	19.79	20.94
	8H	15.81	16.16	16.74	17.08	18.28	18.64	18.98	19.57	19.91	21.10