

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: P933820

Luminaire Tested: SQ4-FA-025U-050D-840-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933820
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-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

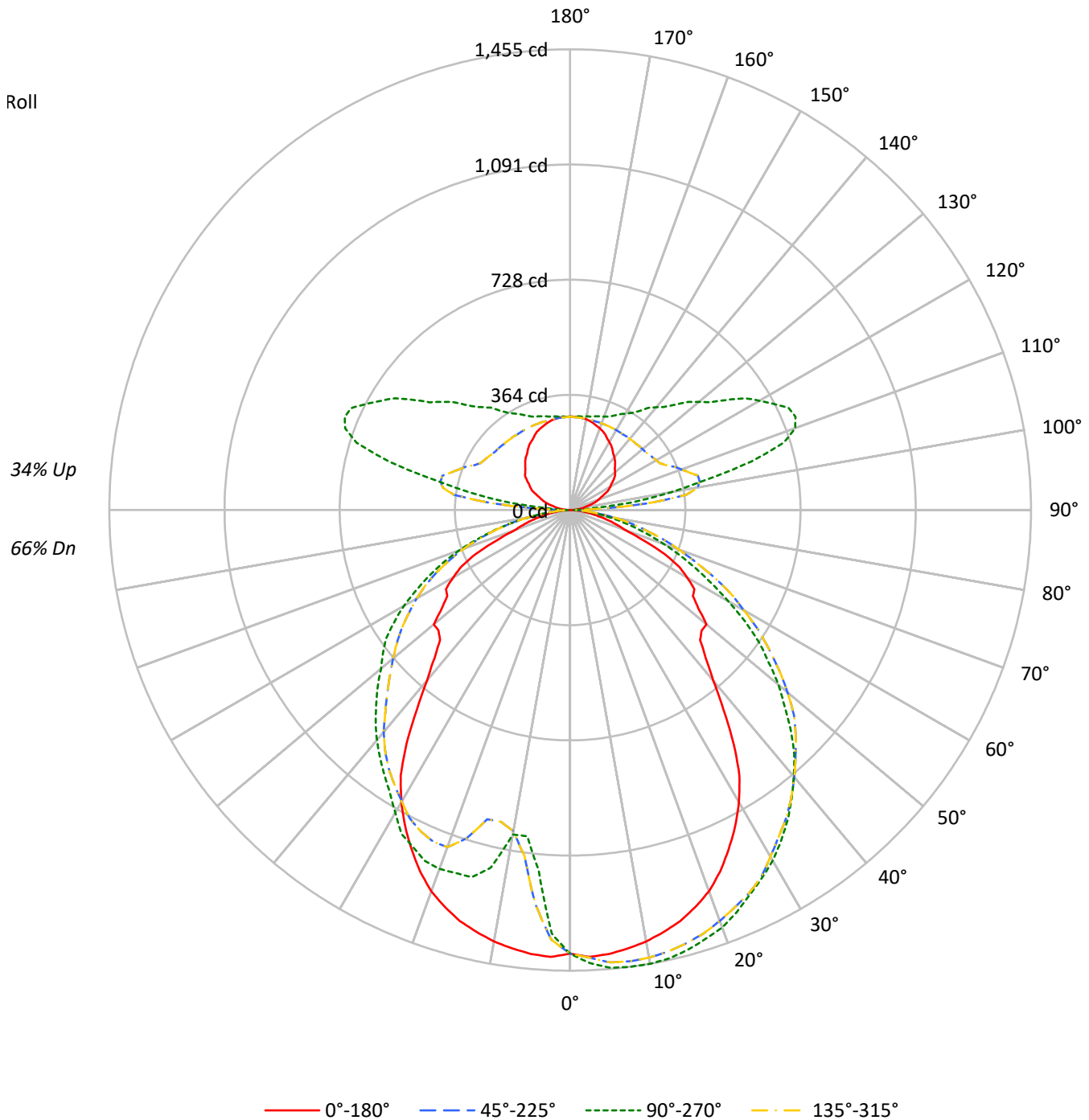
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5544.7 lumens
Efficiency: N/A
Efficacy: 126.0 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°	6499	6499	6499	6499
5°	6548	6560	6548	5158
10°	6504	6462	6504	4620
15°	6433	6322	6433	5279
20°	6298	6156	6298	5290
25°	6023	5914	6023	5178
30°	5667	5714	5667	4932
35°	5052	5460	5052	4661
40°	4210	5161	4210	4457
45°	3761	4810	3761	4222
50°	3996	4393	3996	3986
55°	3760	3943	3760	3850
60°	3876	3349	3876	3526
65°	3513	2769	3513	3094
70°	2433	2207	2433	2594
75°	2134	1631	2134	1953
80°	1719	1078	1719	1173
85°	987	572	987	486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	2.3
10°-20°	359.0	6.5
20°-30°	555.0	10.0
30°-40°	662.5	11.9
40°-50°	666.4	12.0
50°-60°	579.8	10.5
60°-70°	411.1	7.4
70°-80°	217.5	3.9
80°-90°	55.3	1.0
90°-100°	143.7	2.6
100°-110°	377.9	6.8
110°-120°	391.9	7.1
120°-130°	314.3	5.7
130°-140°	246.6	4.4
140°-150°	189.3	3.4
150°-160°	136.3	2.5
160°-170°	83.4	1.5
170°-180°	28.2	0.5
0°-30°	1040.4	18.8
0°-40°	1702.9	30.7
0°-60°	2949.1	53.2
0°-90°	3633.0	65.5
90°-120°	913.5	16.5
90°-150°	1663.7	30.0
90°-180°	1912.0	34.5
0°-180°	5544.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1401	1401	1401	1401	1401	
5°	1407	1451	1407	1141	1407	134
15°	1344	1438	1344	1201	1344	378
25°	1183	1341	1183	1174	1183	543
35°	900	1197	900	1022	900	557
45°	580	986	580	865	580	465
55°	473	728	473	710	473	435
65°	329	439	329	490	329	314
75°	125	208	125	249	125	131
85°	21	53	21	45	21	29
90°	2	8	2	8	2	3
95°	19	87	19	87	19	21
105°	68	592	68	592	68	72
115°	121	762	121	762	121	119
125°	168	607	168	607	168	149
135°	200	471	200	471	200	155
145°	233	382	233	382	233	146
155°	263	329	263	329	263	121
165°	284	306	284	306	284	80
175°	295	297	295	297	295	28
180°	295	295	295	295	295	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1412.6	1412.6	1420.6	1423.3	1423.3	1419.3	1415.3	1419.3	1431.2	1435.2	1433.9
5°	1407.4	1418.0	1432.6	1435.2	1437.8	1436.6	1433.9	1436.6	1449.8	1452.5	1453.7
7.5°	1396.7	1416.7	1435.2	1439.2	1443.2	1439.2	1437.8	1440.5	1453.7	1456.4	1456.4
10°	1383.5	1411.4	1432.6	1435.2	1439.2	1435.2	1435.2	1440.5	1453.7	1456.4	1457.7
12.5°	1364.9	1403.4	1423.3	1425.9	1431.2	1429.9	1428.5	1433.9	1447.1	1449.8	1449.8
15°	1343.8	1388.8	1407.4	1410.0	1419.3	1416.7	1416.7	1421.9	1436.6	1440.5	1439.2
17.5°	1314.6	1370.3	1391.5	1395.5	1402.1	1400.8	1402.1	1407.4	1420.6	1423.3	1424.6
20°	1281.4	1345.1	1370.3	1374.2	1380.8	1380.8	1380.8	1387.4	1400.8	1406.0	1406.0
22.5°	1236.4	1318.6	1345.1	1347.7	1355.7	1355.7	1358.3	1367.6	1379.5	1380.8	1380.8
25°	1183.4	1289.4	1312.0	1319.9	1327.9	1331.8	1335.8	1341.1	1345.1	1343.8	1345.1
27.5°	1127.8	1252.3	1281.4	1286.8	1297.3	1301.4	1306.6	1308.0	1309.3	1313.2	1310.7
30°	1065.5	1200.6	1244.4	1249.7	1266.9	1269.6	1264.2	1266.9	1273.5	1276.2	1278.9
32.5°	995.2	1123.8	1206.0	1217.9	1233.8	1225.8	1224.5	1228.5	1239.1	1239.1	1241.7
35°	899.8	1064.2	1170.2	1180.8	1192.7	1183.4	1188.8	1190.0	1196.7	1200.6	1199.3
37.5°	795.1	1012.5	1133.0	1141.0	1150.3	1138.4	1146.3	1150.3	1155.6	1152.9	1152.9
40°	702.4	931.6	1089.4	1094.6	1102.6	1093.3	1101.2	1103.9	1106.6	1103.9	1102.6
42.5°	633.4	842.9	1042.9	1049.6	1044.2	1050.9	1053.5	1058.8	1054.9	1049.6	1049.6
45°	580.4	819.0	992.5	1000.5	992.5	1003.2	1007.2	1007.2	995.2	992.5	991.3
47.5°	563.3	771.2	942.3	942.3	938.2	951.5	958.2	948.9	936.9	933.0	933.0
50°	561.9	718.3	873.3	868.1	886.5	902.4	895.8	886.5	877.2	862.7	862.7
52.5°	510.2	653.4	784.6	804.4	833.6	842.9	832.2	823.0	807.1	800.4	795.1
55°	473.1	585.8	703.7	743.5	773.9	785.9	766.0	756.7	732.8	728.8	726.2
57.5°	465.2	487.7	629.5	679.8	716.9	715.6	703.7	686.5	666.6	662.7	661.3
60°	426.7	352.5	549.9	609.6	648.0	644.1	633.4	617.5	599.0	596.4	593.7
62.5°	387.0	255.8	459.8	527.4	581.7	580.4	571.2	547.4	534.0	527.4	522.2
65°	328.6	214.7	327.3	438.7	516.8	519.5	499.6	482.3	467.8	459.8	458.5
67.5°	250.5	175.0	221.3	365.8	454.6	451.9	426.7	418.8	400.2	396.3	388.3
70°	185.5	116.6	153.7	296.9	393.6	387.0	367.0	357.9	340.6	331.3	326.0
72.5°	153.7	94.1	112.6	230.6	331.3	323.4	306.1	295.5	281.0	273.0	267.6
75°	124.6	99.4	86.2	170.9	269.0	263.7	247.8	237.2	225.3	214.7	216.0
77.5°	91.5	92.8	68.9	125.9	213.4	205.4	196.1	182.9	177.5	167.0	167.0
80°	68.9	72.9	51.7	86.2	153.7	153.7	145.7	136.5	127.3	121.9	121.9
82.5°	46.3	46.3	38.4	54.3	104.7	100.7	95.4	92.8	87.4	84.8	84.8
85°	21.2	26.5	23.8	33.1	57.0	59.7	59.7	57.0	55.6	53.1	54.3
87.5°	6.6	12.0	14.6	18.6	29.1	30.5	31.8	31.8	31.8	33.1	33.1
90°	2.0	3.6	5.1	5.5	8.7	12.9	15.0	13.3	10.0	7.5	7.5
92.5°	7.9	21.3	34.9	38.2	53.7	74.4	84.7	74.2	53.4	37.6	36.2
95°	19.0	43.6	68.3	74.4	132.1	209.1	247.6	220.9	167.7	127.6	123.1
97.5°	32.9	54.6	76.3	81.7	177.9	306.3	370.5	353.7	320.0	294.7	286.1
100°	43.6	63.2	82.9	87.8	194.6	337.0	408.2	409.5	412.0	413.9	403.6
102.5°	52.7	71.0	89.4	94.0	202.3	346.8	419.0	440.5	483.3	515.5	506.7
105°	68.1	83.7	99.3	103.1	208.1	347.9	417.8	465.9	562.2	634.3	629.6
107.5°	83.9	98.4	112.9	116.6	209.1	332.4	394.0	461.1	595.4	696.0	697.2
110°	94.7	107.7	120.8	124.1	207.5	318.6	374.3	449.2	599.3	711.9	716.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	105.1	117.6	130.0	133.2	207.6	306.7	356.3	433.0	586.6	701.8	709.4
115°	120.9	132.4	144.0	146.8	209.5	292.9	334.6	408.6	556.6	667.6	678.1
117.5°	136.5	147.0	157.5	160.2	213.4	284.3	319.8	386.6	520.1	620.3	631.9
120°	145.6	155.5	165.4	167.9	216.6	281.5	313.9	374.8	496.9	588.4	599.6
122.5°	154.5	164.5	174.5	177.0	221.1	279.9	309.3	364.3	474.1	556.5	567.7
125°	168.3	177.3	186.3	188.6	227.2	278.7	304.4	351.0	444.4	514.4	524.6
127.5°	179.3	188.4	197.6	199.9	233.4	277.9	300.3	340.4	420.5	480.6	489.3
130°	185.2	195.1	204.9	207.4	237.8	278.4	298.7	334.3	405.7	459.1	467.1
132.5°	191.4	201.3	211.0	213.5	241.5	278.7	297.3	329.2	393.0	440.9	448.2
135°	200.5	209.5	218.4	220.7	245.4	278.4	294.9	321.7	375.1	415.3	421.4
137.5°	209.8	218.6	227.5	229.8	251.3	280.1	294.5	317.1	362.3	396.2	401.2
140°	217.5	225.7	233.9	235.9	255.0	280.4	293.1	312.7	351.7	381.0	385.7
142.5°	223.5	231.0	238.6	240.5	258.1	281.5	293.1	310.3	344.6	370.3	374.4
145°	232.6	239.2	245.7	247.4	262.0	281.5	291.2	305.2	333.3	354.3	357.4
147.5°	241.7	248.1	254.5	256.1	267.7	283.4	291.2	302.2	324.3	340.8	343.3
150°	247.6	253.4	259.2	260.6	270.8	284.3	291.2	300.5	319.1	333.1	335.1
152.5°	253.7	258.1	262.5	263.6	272.8	285.0	291.2	299.1	315.0	326.9	328.5
155°	262.8	266.1	269.3	270.1	277.1	286.5	291.2	297.5	310.1	319.6	320.6
157.5°	269.5	272.7	275.8	276.6	281.5	287.9	291.2	296.1	305.9	313.3	314.0
160°	274.1	276.5	279.0	279.6	283.5	288.6	291.2	295.4	303.8	310.1	310.5
162.5°	278.6	280.5	282.3	282.8	285.5	289.3	291.2	294.7	301.8	307.2	307.6
165°	283.7	285.3	287.0	287.4	288.7	290.4	291.2	293.7	298.8	302.6	303.0
167.5°	288.2	289.0	289.8	290.0	291.1	292.4	293.1	294.8	298.2	300.6	300.8
170°	291.2	292.0	292.7	292.9	293.0	293.1	293.1	294.8	298.2	300.6	300.6
172.5°	292.7	292.9	293.1	293.1	293.1	293.1	293.1	294.4	297.1	299.1	298.9
175°	294.9	294.9	294.9	294.9	294.3	293.5	293.1	293.9	295.6	296.9	296.9
177.5°	294.9	294.9	294.9	294.9	294.4	293.8	293.5	294.2	295.5	296.5	296.3
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1436.6	1432.6	1436.6	1433.9	1435.2	1431.2	1419.3	1415.3	1419.3	1423.3	1423.3
5°	1453.7	1451.1	1453.7	1453.7	1452.5	1449.8	1436.6	1433.9	1436.6	1437.8	1435.2
7.5°	1459.1	1455.1	1459.1	1456.4	1456.4	1453.7	1440.5	1437.8	1439.2	1443.2	1439.2
10°	1459.1	1455.1	1459.1	1457.7	1456.4	1453.7	1440.5	1435.2	1435.2	1439.2	1435.2
12.5°	1452.5	1449.8	1452.5	1449.8	1449.8	1447.1	1433.9	1428.5	1429.9	1431.2	1425.9
15°	1441.8	1437.8	1441.8	1439.2	1440.5	1436.6	1421.9	1416.7	1416.7	1419.3	1410.0
17.5°	1425.9	1420.6	1425.9	1424.6	1423.3	1420.6	1407.4	1402.1	1400.8	1402.1	1395.5
20°	1407.4	1403.4	1407.4	1406.0	1406.0	1400.8	1387.4	1380.8	1380.8	1380.8	1374.2
22.5°	1378.3	1374.2	1378.3	1380.8	1380.8	1379.5	1367.6	1358.3	1355.7	1355.7	1347.7
25°	1345.1	1341.1	1345.1	1345.1	1343.8	1345.1	1341.1	1335.8	1331.8	1327.9	1319.9
27.5°	1313.2	1310.7	1313.2	1310.7	1313.2	1309.3	1308.0	1306.6	1301.4	1297.3	1286.8
30°	1281.4	1278.9	1281.4	1278.9	1276.2	1273.5	1266.9	1264.2	1269.6	1266.9	1249.7
32.5°	1241.7	1239.1	1241.7	1241.7	1239.1	1239.1	1228.5	1224.5	1225.8	1233.8	1217.9
35°	1200.6	1196.7	1200.6	1199.3	1200.6	1196.7	1190.0	1188.8	1183.4	1192.7	1180.8
37.5°	1152.9	1148.9	1152.9	1152.9	1152.9	1155.6	1150.3	1146.3	1138.4	1150.3	1141.0
40°	1103.9	1098.6	1103.9	1102.6	1103.9	1106.6	1103.9	1101.2	1093.3	1102.6	1094.6
42.5°	1048.3	1046.9	1048.3	1049.6	1049.6	1054.9	1058.8	1053.5	1050.9	1044.2	1049.6
45°	988.6	985.9	988.6	991.3	992.5	995.2	1007.2	1007.2	1003.2	992.5	1000.5
47.5°	925.0	918.3	925.0	933.0	933.0	936.9	948.9	958.2	951.5	938.2	942.3
50°	857.4	858.8	857.4	862.7	862.7	877.2	886.5	895.8	902.4	886.5	868.1
52.5°	791.2	789.8	791.2	795.1	800.4	807.1	823.0	832.2	842.9	833.6	804.4
55°	724.9	727.6	724.9	726.2	728.8	732.8	756.7	766.0	785.9	773.9	743.5
57.5°	658.6	654.6	658.6	661.3	662.7	666.6	686.5	703.7	715.6	716.9	679.8
60°	581.7	576.5	581.7	593.7	596.4	599.0	617.5	633.4	644.1	648.0	609.6
62.5°	514.2	504.9	514.2	522.2	527.4	534.0	547.4	571.2	580.4	581.7	527.4
65°	442.6	438.7	442.6	458.5	459.8	467.8	482.3	499.6	519.5	516.8	438.7
67.5°	377.7	377.7	377.7	388.3	396.3	400.2	418.8	426.7	451.9	454.6	365.8
70°	318.0	316.8	318.0	326.0	331.3	340.6	357.9	367.0	387.0	393.6	296.9
72.5°	261.0	259.7	261.0	267.6	273.0	281.0	295.5	306.1	323.4	331.3	230.6
75°	210.7	208.1	210.7	216.0	214.7	225.3	237.2	247.8	263.7	269.0	170.9
77.5°	161.6	161.6	161.6	167.0	167.0	177.5	182.9	196.1	205.4	213.4	125.9
80°	120.6	119.3	120.6	121.9	121.9	127.3	136.5	145.7	153.7	153.7	86.2
82.5°	84.8	82.2	84.8	84.8	84.8	87.4	92.8	95.4	100.7	104.7	54.3
85°	53.1	53.1	53.1	54.3	53.1	55.6	57.0	59.7	59.7	57.0	33.1
87.5°	34.5	33.1	34.5	33.1	33.1	31.8	31.8	31.8	30.5	29.1	18.6
90°	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9	8.7	5.5
92.5°	30.1	24.1	30.1	36.2	37.6	53.4	74.2	84.7	74.4	53.7	38.2
95°	105.0	86.8	105.0	123.1	127.6	167.7	220.9	247.6	209.1	132.1	74.4
97.5°	251.5	217.1	251.5	286.1	294.7	320.0	353.7	370.5	306.3	177.9	81.7
100°	362.5	321.4	362.5	403.6	413.9	412.0	409.5	408.2	337.0	194.6	87.8
102.5°	471.6	436.4	471.6	506.7	515.5	483.3	440.5	419.0	346.8	202.3	94.0
105°	610.7	591.7	610.7	629.6	634.3	562.2	465.9	417.8	347.9	208.1	103.1
107.5°	701.8	706.3	701.8	697.2	696.0	595.4	461.1	394.0	332.4	209.1	116.6
110°	736.5	756.2	736.5	716.8	711.9	599.3	449.2	374.3	318.6	207.5	124.1



TEST NUMBER: P933820

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	739.6	769.8	739.6	709.4	701.8	586.6	433.0	356.3	306.7	207.6	133.2
115°	720.1	761.9	720.1	678.1	667.6	556.6	408.6	334.6	292.9	209.5	146.8
117.5°	678.5	725.0	678.5	631.9	620.3	520.1	386.6	319.8	284.3	213.4	160.2
120°	644.9	690.1	644.9	599.6	588.4	496.9	374.8	313.9	281.5	216.6	167.9
122.5°	612.3	656.8	612.3	567.7	556.5	474.1	364.3	309.3	279.9	221.1	177.0
125°	565.7	606.8	565.7	524.6	514.4	444.4	351.0	304.4	278.7	227.2	188.6
127.5°	523.8	558.5	523.8	489.3	480.6	420.5	340.4	300.3	277.9	233.4	199.9
130°	499.1	531.1	499.1	467.1	459.1	405.7	334.3	298.7	278.4	237.8	207.4
132.5°	476.8	505.5	476.8	448.2	440.9	393.0	329.2	297.3	278.7	241.5	213.5
135°	446.1	470.8	446.1	421.4	415.3	375.1	321.7	294.9	278.4	245.4	220.7
137.5°	421.5	441.7	421.5	401.2	396.2	362.3	317.1	294.5	280.1	251.3	229.8
140°	404.6	423.6	404.6	385.7	381.0	351.7	312.7	293.1	280.4	255.0	235.9
142.5°	390.7	406.9	390.7	374.4	370.3	344.6	310.3	293.1	281.5	258.1	240.5
145°	369.7	382.0	369.7	357.4	354.3	333.3	305.2	291.2	281.5	262.0	247.4
147.5°	353.5	363.8	353.5	343.3	340.8	324.3	302.2	291.2	283.4	267.7	256.1
150°	343.4	351.7	343.4	335.1	333.1	319.1	300.5	291.2	284.3	270.8	260.6
152.5°	334.7	341.0	334.7	328.5	326.9	315.0	299.1	291.2	285.0	272.8	263.6
155°	324.8	328.9	324.8	320.6	319.6	310.1	297.5	291.2	286.5	277.1	270.1
157.5°	317.0	319.8	317.0	314.0	313.3	305.9	296.1	291.2	287.9	281.5	276.6
160°	312.2	313.9	312.2	310.5	310.1	303.8	295.4	291.2	288.6	283.5	279.6
162.5°	309.1	310.7	309.1	307.6	307.2	301.8	294.7	291.2	289.3	285.5	282.8
165°	304.7	306.4	304.7	303.0	302.6	298.8	293.7	291.2	290.4	288.7	287.4
167.5°	301.5	302.2	301.5	300.8	300.6	298.2	294.8	293.1	292.4	291.1	290.0
170°	300.6	300.6	300.6	300.6	300.6	298.2	294.8	293.1	293.1	293.0	292.9
172.5°	298.3	297.7	298.3	298.9	299.1	297.1	294.4	293.1	293.1	293.1	293.1
175°	296.9	296.9	296.9	296.9	296.9	295.6	293.9	293.1	293.5	294.3	294.9
177.5°	295.6	294.9	295.6	296.3	296.5	295.5	294.2	293.5	293.8	294.4	294.9
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P933820

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1420.6	1412.6	1412.6	1399.4	1394.2	1390.1	1383.5	1363.6	1358.3	1353.1	1361.0
5°	1432.6	1418.0	1407.4	1383.5	1363.6	1355.7	1330.5	1282.8	1251.0	1227.1	1213.9
7.5°	1435.2	1416.7	1396.7	1359.7	1312.0	1290.7	1213.9	1126.4	1102.6	1081.4	1068.1
10°	1432.6	1411.4	1383.5	1327.9	1215.2	1178.1	1101.2	1044.2	1029.7	1025.7	1029.7
12.5°	1423.3	1403.4	1364.9	1272.2	1114.5	1089.4	1044.2	1011.1	1008.5	1015.1	1050.9
15°	1407.4	1388.8	1343.8	1198.0	1058.8	1040.3	1008.5	996.6	1011.1	1057.6	1164.9
17.5°	1391.5	1370.3	1314.6	1125.1	1016.5	1003.2	980.7	1004.5	1086.7	1148.9	1184.7
20°	1370.3	1345.1	1281.4	1072.1	985.9	974.1	963.4	1070.8	1133.0	1155.6	1175.4
22.5°	1345.1	1318.6	1236.4	1035.0	954.1	944.9	951.5	1107.8	1133.0	1148.9	1166.1
25°	1312.0	1289.4	1183.4	1005.9	929.0	918.3	943.5	1103.9	1118.5	1122.5	1156.9
27.5°	1281.4	1252.3	1127.8	979.3	898.5	894.5	950.2	1086.7	1097.3	1101.2	1138.4
30°	1244.4	1200.6	1065.5	951.5	866.7	865.4	951.5	1065.5	1062.8	1073.5	1110.5
32.5°	1206.0	1123.8	995.2	917.1	836.2	834.9	942.3	1033.6	1031.0	1045.6	1073.5
35°	1170.2	1064.2	899.8	877.2	797.8	799.1	919.7	996.6	997.9	1011.1	1028.4
37.5°	1133.0	1012.5	795.1	833.6	760.7	760.7	889.2	962.1	959.4	963.4	987.3
40°	1089.4	931.6	702.4	776.6	726.2	722.2	852.2	925.0	915.7	914.4	947.5
42.5°	1042.9	842.9	633.4	701.1	686.5	681.1	807.1	879.9	862.7	866.7	909.1
45°	992.5	819.0	580.4	592.4	645.4	641.4	758.0	828.2	816.3	827.0	870.6
47.5°	942.3	771.2	563.3	491.6	601.7	600.3	703.7	777.9	771.2	781.9	828.2
50°	873.3	718.3	561.9	421.4	552.6	557.9	638.7	728.8	728.8	738.1	787.1
52.5°	784.6	653.4	510.2	381.7	495.6	511.5	581.7	686.5	689.1	698.4	742.1
55°	703.7	585.8	473.1	351.1	428.0	462.5	526.1	642.7	648.0	657.3	697.0
57.5°	629.5	487.7	465.2	315.4	365.8	398.9	477.1	600.3	603.0	610.9	649.3
60°	549.9	352.5	426.7	276.9	311.4	336.6	432.1	549.9	559.2	564.5	597.6
62.5°	459.8	255.8	387.0	250.5	284.9	290.2	394.9	502.3	514.2	518.2	538.1
65°	327.3	214.7	328.6	227.9	257.1	258.5	355.2	453.2	463.9	470.5	485.0
67.5°	221.3	175.0	250.5	206.7	235.9	237.2	316.8	396.3	410.8	416.1	425.4
70°	153.7	116.6	185.5	184.2	212.0	214.7	275.7	344.5	357.9	361.8	367.0
72.5°	112.6	94.1	153.7	165.7	186.8	189.5	233.3	286.2	299.5	303.5	306.1
75°	86.2	99.4	124.6	144.4	159.1	160.4	190.8	233.3	242.6	245.1	246.5
77.5°	68.9	92.8	91.5	116.6	129.8	127.3	149.8	180.2	188.2	188.2	188.2
80°	51.7	72.9	68.9	83.5	95.4	92.8	107.3	128.5	131.2	133.9	132.5
82.5°	38.4	46.3	46.3	53.1	63.6	61.0	71.5	83.5	83.5	83.5	86.2
85°	23.8	26.5	21.2	27.9	35.8	34.5	39.7	45.1	46.3	46.3	43.8
87.5°	14.6	12.0	6.6	10.6	15.9	15.9	18.6	19.9	18.6	18.6	18.6
90°	5.1	3.6	2.0	3.6	5.1	5.5	8.7	12.9	15.0	13.3	10.0
92.5°	34.9	21.3	7.9	21.3	34.9	38.2	53.7	74.4	84.7	74.2	53.4
95°	68.3	43.6	19.0	43.6	68.3	74.4	132.1	209.1	247.6	220.9	167.7
97.5°	76.3	54.6	32.9	54.6	76.3	81.7	177.9	306.3	370.5	353.7	320.0
100°	82.9	63.2	43.6	63.2	82.9	87.8	194.6	337.0	408.2	409.5	412.0
102.5°	89.4	71.0	52.7	71.0	89.4	94.0	202.3	346.8	419.0	440.5	483.3
105°	99.3	83.7	68.1	83.7	99.3	103.1	208.1	347.9	417.8	465.9	562.2
107.5°	112.9	98.4	83.9	98.4	112.9	116.6	209.1	332.4	394.0	461.1	595.4
110°	120.8	107.7	94.7	107.7	120.8	124.1	207.5	318.6	374.3	449.2	599.3



TEST NUMBER: P933820

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	130.0	117.6	105.1	117.6	130.0	133.2	207.6	306.7	356.3	433.0	586.6
115°	144.0	132.4	120.9	132.4	144.0	146.8	209.5	292.9	334.6	408.6	556.6
117.5°	157.5	147.0	136.5	147.0	157.5	160.2	213.4	284.3	319.8	386.6	520.1
120°	165.4	155.5	145.6	155.5	165.4	167.9	216.6	281.5	313.9	374.8	496.9
122.5°	174.5	164.5	154.5	164.5	174.5	177.0	221.1	279.9	309.3	364.3	474.1
125°	186.3	177.3	168.3	177.3	186.3	188.6	227.2	278.7	304.4	351.0	444.4
127.5°	197.6	188.4	179.3	188.4	197.6	199.9	233.4	277.9	300.3	340.4	420.5
130°	204.9	195.1	185.2	195.1	204.9	207.4	237.8	278.4	298.7	334.3	405.7
132.5°	211.0	201.3	191.4	201.3	211.0	213.5	241.5	278.7	297.3	329.2	393.0
135°	218.4	209.5	200.5	209.5	218.4	220.7	245.4	278.4	294.9	321.7	375.1
137.5°	227.5	218.6	209.8	218.6	227.5	229.8	251.3	280.1	294.5	317.1	362.3
140°	233.9	225.7	217.5	225.7	233.9	235.9	255.0	280.4	293.1	312.7	351.7
142.5°	238.6	231.0	223.5	231.0	238.6	240.5	258.1	281.5	293.1	310.3	344.6
145°	245.7	239.2	232.6	239.2	245.7	247.4	262.0	281.5	291.2	305.2	333.3
147.5°	254.5	248.1	241.7	248.1	254.5	256.1	267.7	283.4	291.2	302.2	324.3
150°	259.2	253.4	247.6	253.4	259.2	260.6	270.8	284.3	291.2	300.5	319.1
152.5°	262.5	258.1	253.7	258.1	262.5	263.6	272.8	285.0	291.2	299.1	315.0
155°	269.3	266.1	262.8	266.1	269.3	270.1	277.1	286.5	291.2	297.5	310.1
157.5°	275.8	272.7	269.5	272.7	275.8	276.6	281.5	287.9	291.2	296.1	305.9
160°	279.0	276.5	274.1	276.5	279.0	279.6	283.5	288.6	291.2	295.4	303.8
162.5°	282.3	280.5	278.6	280.5	282.3	282.8	285.5	289.3	291.2	294.7	301.8
165°	287.0	285.3	283.7	285.3	287.0	287.4	288.7	290.4	291.2	293.7	298.8
167.5°	289.8	289.0	288.2	289.0	289.8	290.0	291.1	292.4	293.1	294.8	298.2
170°	292.7	292.0	291.2	292.0	292.7	292.9	293.0	293.1	293.1	294.8	298.2
172.5°	293.1	292.9	292.7	292.9	293.1	293.1	293.1	293.1	293.1	294.4	297.1
175°	294.9	294.9	294.9	294.9	294.9	294.9	294.3	293.5	293.1	293.9	295.6
177.5°	294.9	294.9	294.9	294.9	294.9	294.9	294.4	293.8	293.5	294.2	295.5
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P933820
 CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1351.7	1347.7	1353.1	1338.4	1353.1	1347.7	1351.7	1361.0	1353.1	1358.3	1363.6
5°	1186.1	1179.5	1158.2	1141.0	1158.2	1179.5	1186.1	1213.9	1227.1	1251.0	1282.8
7.5°	1060.1	1054.9	1049.6	1039.0	1049.6	1054.9	1060.1	1068.1	1081.4	1102.6	1126.4
10°	1032.4	1033.6	1041.6	1040.3	1041.6	1033.6	1032.4	1029.7	1025.7	1029.7	1044.2
12.5°	1103.9	1115.8	1159.5	1156.9	1159.5	1115.8	1103.9	1050.9	1015.1	1008.5	1011.1
15°	1186.1	1190.0	1199.3	1200.6	1199.3	1190.0	1186.1	1164.9	1057.6	1011.1	996.6
17.5°	1194.0	1195.4	1202.0	1202.0	1202.0	1195.4	1194.0	1184.7	1148.9	1086.7	1004.5
20°	1187.4	1190.0	1203.3	1206.0	1203.3	1190.0	1187.4	1175.4	1155.6	1133.0	1070.8
22.5°	1184.7	1190.0	1200.6	1199.3	1200.6	1190.0	1184.7	1166.1	1148.9	1133.0	1107.8
25°	1171.5	1171.5	1172.9	1174.1	1172.9	1171.5	1171.5	1156.9	1122.5	1118.5	1103.9
27.5°	1143.6	1146.3	1154.3	1152.9	1154.3	1146.3	1143.6	1138.4	1101.2	1097.3	1086.7
30°	1118.5	1115.8	1109.2	1103.9	1109.2	1115.8	1118.5	1110.5	1073.5	1062.8	1065.5
32.5°	1076.0	1069.4	1062.8	1058.8	1062.8	1069.4	1076.0	1073.5	1045.6	1031.0	1033.6
35°	1025.7	1027.0	1025.7	1021.7	1025.7	1027.0	1025.7	1028.4	1011.1	997.9	996.6
37.5°	990.0	992.5	991.3	985.9	991.3	992.5	990.0	987.3	963.4	959.4	962.1
40°	952.8	954.1	952.8	948.9	952.8	954.1	952.8	947.5	914.4	915.7	925.0
42.5°	917.1	915.7	911.7	909.1	911.7	915.7	917.1	909.1	866.7	862.7	879.9
45°	876.0	877.2	869.3	865.4	869.3	877.2	876.0	870.6	827.0	816.3	828.2
47.5°	834.9	834.9	828.2	824.3	828.2	834.9	834.9	828.2	781.9	771.2	777.9
50°	791.2	789.8	780.5	779.2	780.5	789.8	791.2	787.1	738.1	728.8	728.8
52.5°	740.8	740.8	742.1	744.8	742.1	740.8	740.8	742.1	698.4	689.1	686.5
55°	697.0	698.4	707.7	710.3	707.7	698.4	697.0	697.0	657.3	648.0	642.7
57.5°	652.0	652.0	658.6	658.6	658.6	652.0	652.0	649.3	610.9	603.0	600.3
60°	600.3	603.0	608.3	606.9	608.3	603.0	600.3	597.6	564.5	559.2	549.9
62.5°	546.0	548.6	549.9	547.4	549.9	548.6	546.0	538.1	518.2	514.2	502.3
65°	489.0	491.6	493.0	490.3	493.0	491.6	489.0	485.0	470.5	463.9	453.2
67.5°	430.7	429.4	428.0	433.3	428.0	429.4	430.7	425.4	416.1	410.8	396.3
70°	371.1	371.1	369.7	372.4	369.7	371.1	371.1	367.0	361.8	357.9	344.5
72.5°	307.5	306.1	311.4	307.5	311.4	306.1	307.5	306.1	303.5	299.5	286.2
75°	245.1	247.8	245.1	249.2	245.1	247.8	245.1	246.5	245.1	242.6	233.3
77.5°	186.8	189.5	186.8	186.8	186.8	189.5	186.8	188.2	188.2	188.2	180.2
80°	132.5	131.2	131.2	129.8	131.2	131.2	132.5	132.5	133.9	131.2	128.5
82.5°	84.8	83.5	83.5	86.2	83.5	83.5	84.8	86.2	83.5	83.5	83.5
85°	46.3	47.7	45.1	45.1	45.1	47.7	46.3	43.8	46.3	46.3	45.1
87.5°	17.2	15.9	15.9	15.9	15.9	15.9	17.2	18.6	18.6	18.6	19.9
90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9
92.5°	37.6	36.2	30.1	24.1	30.1	36.2	37.6	53.4	74.2	84.7	74.4
95°	127.6	123.1	105.0	86.8	105.0	123.1	127.6	167.7	220.9	247.6	209.1
97.5°	294.7	286.1	251.5	217.1	251.5	286.1	294.7	320.0	353.7	370.5	306.3
100°	413.9	403.6	362.5	321.4	362.5	403.6	413.9	412.0	409.5	408.2	337.0
102.5°	515.5	506.7	471.6	436.4	471.6	506.7	515.5	483.3	440.5	419.0	346.8
105°	634.3	629.6	610.7	591.7	610.7	629.6	634.3	562.2	465.9	417.8	347.9
107.5°	696.0	697.2	701.8	706.3	701.8	697.2	696.0	595.4	461.1	394.0	332.4
110°	711.9	716.8	736.5	756.2	736.5	716.8	711.9	599.3	449.2	374.3	318.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	701.8	709.4	739.6	769.8	739.6	709.4	701.8	586.6	433.0	356.3	306.7
115°	667.6	678.1	720.1	761.9	720.1	678.1	667.6	556.6	408.6	334.6	292.9
117.5°	620.3	631.9	678.5	725.0	678.5	631.9	620.3	520.1	386.6	319.8	284.3
120°	588.4	599.6	644.9	690.1	644.9	599.6	588.4	496.9	374.8	313.9	281.5
122.5°	556.5	567.7	612.3	656.8	612.3	567.7	556.5	474.1	364.3	309.3	279.9
125°	514.4	524.6	565.7	606.8	565.7	524.6	514.4	444.4	351.0	304.4	278.7
127.5°	480.6	489.3	523.8	558.5	523.8	489.3	480.6	420.5	340.4	300.3	277.9
130°	459.1	467.1	499.1	531.1	499.1	467.1	459.1	405.7	334.3	298.7	278.4
132.5°	440.9	448.2	476.8	505.5	476.8	448.2	440.9	393.0	329.2	297.3	278.7
135°	415.3	421.4	446.1	470.8	446.1	421.4	415.3	375.1	321.7	294.9	278.4
137.5°	396.2	401.2	421.5	441.7	421.5	401.2	396.2	362.3	317.1	294.5	280.1
140°	381.0	385.7	404.6	423.6	404.6	385.7	381.0	351.7	312.7	293.1	280.4
142.5°	370.3	374.4	390.7	406.9	390.7	374.4	370.3	344.6	310.3	293.1	281.5
145°	354.3	357.4	369.7	382.0	369.7	357.4	354.3	333.3	305.2	291.2	281.5
147.5°	340.8	343.3	353.5	363.8	353.5	343.3	340.8	324.3	302.2	291.2	283.4
150°	333.1	335.1	343.4	351.7	343.4	335.1	333.1	319.1	300.5	291.2	284.3
152.5°	326.9	328.5	334.7	341.0	334.7	328.5	326.9	315.0	299.1	291.2	285.0
155°	319.6	320.6	324.8	328.9	324.8	320.6	319.6	310.1	297.5	291.2	286.5
157.5°	313.3	314.0	317.0	319.8	317.0	314.0	313.3	305.9	296.1	291.2	287.9
160°	310.1	310.5	312.2	313.9	312.2	310.5	310.1	303.8	295.4	291.2	288.6
162.5°	307.2	307.6	309.1	310.7	309.1	307.6	307.2	301.8	294.7	291.2	289.3
165°	302.6	303.0	304.7	306.4	304.7	303.0	302.6	298.8	293.7	291.2	290.4
167.5°	300.6	300.8	301.5	302.2	301.5	300.8	300.6	298.2	294.8	293.1	292.4
170°	300.6	300.6	300.6	300.6	300.6	300.6	300.6	298.2	294.8	293.1	293.1
172.5°	299.1	298.9	298.3	297.7	298.3	298.9	299.1	297.1	294.4	293.1	293.1
175°	296.9	296.9	296.9	296.9	296.9	296.9	296.9	295.6	293.9	293.1	293.5
177.5°	296.5	296.3	295.6	294.9	295.6	296.3	296.5	295.5	294.2	293.5	293.8
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1383.5	1390.1	1394.2	1399.4	1412.6
5°	1330.5	1355.7	1363.6	1383.5	1407.4
7.5°	1213.9	1290.7	1312.0	1359.7	1396.7
10°	1101.2	1178.1	1215.2	1327.9	1383.5
12.5°	1044.2	1089.4	1114.5	1272.2	1364.9
15°	1008.5	1040.3	1058.8	1198.0	1343.8
17.5°	980.7	1003.2	1016.5	1125.1	1314.6
20°	963.4	974.1	985.9	1072.1	1281.4
22.5°	951.5	944.9	954.1	1035.0	1236.4
25°	943.5	918.3	929.0	1005.9	1183.4
27.5°	950.2	894.5	898.5	979.3	1127.8
30°	951.5	865.4	866.7	951.5	1065.5
32.5°	942.3	834.9	836.2	917.1	995.2
35°	919.7	799.1	797.8	877.2	899.8
37.5°	889.2	760.7	760.7	833.6	795.1
40°	852.2	722.2	726.2	776.6	702.4
42.5°	807.1	681.1	686.5	701.1	633.4
45°	758.0	641.4	645.4	592.4	580.4
47.5°	703.7	600.3	601.7	491.6	563.3
50°	638.7	557.9	552.6	421.4	561.9
52.5°	581.7	511.5	495.6	381.7	510.2
55°	526.1	462.5	428.0	351.1	473.1
57.5°	477.1	398.9	365.8	315.4	465.2
60°	432.1	336.6	311.4	276.9	426.7
62.5°	394.9	290.2	284.9	250.5	387.0
65°	355.2	258.5	257.1	227.9	328.6
67.5°	316.8	237.2	235.9	206.7	250.5
70°	275.7	214.7	212.0	184.2	185.5
72.5°	233.3	189.5	186.8	165.7	153.7
75°	190.8	160.4	159.1	144.4	124.6
77.5°	149.8	127.3	129.8	116.6	91.5
80°	107.3	92.8	95.4	83.5	68.9
82.5°	71.5	61.0	63.6	53.1	46.3
85°	39.7	34.5	35.8	27.9	21.2
87.5°	18.6	15.9	15.9	10.6	6.6
90°	8.7	5.5	5.1	3.6	2.0
92.5°	53.7	38.2	34.9	21.3	7.9
95°	132.1	74.4	68.3	43.6	19.0
97.5°	177.9	81.7	76.3	54.6	32.9
100°	194.6	87.8	82.9	63.2	43.6
102.5°	202.3	94.0	89.4	71.0	52.7
105°	208.1	103.1	99.3	83.7	68.1
107.5°	209.1	116.6	112.9	98.4	83.9
110°	207.5	124.1	120.8	107.7	94.7



TEST NUMBER: P933820

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	207.6	133.2	130.0	117.6	105.1
115°	209.5	146.8	144.0	132.4	120.9
117.5°	213.4	160.2	157.5	147.0	136.5
120°	216.6	167.9	165.4	155.5	145.6
122.5°	221.1	177.0	174.5	164.5	154.5
125°	227.2	188.6	186.3	177.3	168.3
127.5°	233.4	199.9	197.6	188.4	179.3
130°	237.8	207.4	204.9	195.1	185.2
132.5°	241.5	213.5	211.0	201.3	191.4
135°	245.4	220.7	218.4	209.5	200.5
137.5°	251.3	229.8	227.5	218.6	209.8
140°	255.0	235.9	233.9	225.7	217.5
142.5°	258.1	240.5	238.6	231.0	223.5
145°	262.0	247.4	245.7	239.2	232.6
147.5°	267.7	256.1	254.5	248.1	241.7
150°	270.8	260.6	259.2	253.4	247.6
152.5°	272.8	263.6	262.5	258.1	253.7
155°	277.1	270.1	269.3	266.1	262.8
157.5°	281.5	276.6	275.8	272.7	269.5
160°	283.5	279.6	279.0	276.5	274.1
162.5°	285.5	282.8	282.3	280.5	278.6
165°	288.7	287.4	287.0	285.3	283.7
167.5°	291.1	290.0	289.8	289.0	288.2
170°	293.0	292.9	292.7	292.0	291.2
172.5°	293.1	293.1	293.1	292.9	292.7
175°	294.3	294.9	294.9	294.9	294.9
177.5°	294.4	294.9	294.9	294.9	294.9
180°	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P933820
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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	12.63	13.65	13.44	14.49	15.52	15.47	16.49	16.28	17.32	18.35
	3H	13.12	14.04	13.95	14.88	15.94	16.83	17.74	17.65	18.59	19.65
	4H	13.32	14.18	14.16	15.03	16.10	17.28	18.15	18.12	19.00	20.07
	6H	13.45	14.24	14.30	15.10	16.19	17.58	18.37	18.43	19.23	20.32
	8H	13.45	14.21	14.31	15.09	16.17	17.66	18.42	18.52	19.29	20.38
	12H	13.43	14.15	14.30	15.02	16.13	17.70	18.43	18.57	19.30	20.41
4H	2H	13.69	14.55	14.53	15.40	16.47	15.90	16.76	16.74	17.61	18.68
	3H	14.73	15.45	15.59	16.33	17.42	17.42	18.14	18.28	19.02	20.11
	4H	15.01	15.67	15.88	16.55	17.66	17.96	18.61	18.83	19.49	20.61
	6H	15.14	15.71	16.03	16.62	17.73	18.33	18.90	19.22	19.80	20.92
	8H	15.15	15.68	16.04	16.58	17.71	18.44	18.97	19.33	19.87	21.00
	12H	15.13	15.61	16.04	16.52	17.66	18.51	18.99	19.42	19.91	21.04
8H	4H	15.48	16.01	16.37	16.91	18.04	18.09	18.62	18.98	19.52	20.65
	6H	15.75	16.18	16.66	17.13	18.25	18.54	18.98	19.45	19.92	21.05
	8H	15.79	16.18	16.72	17.11	18.26	18.69	19.08	19.62	20.02	21.16
	12H	15.78	16.12	16.71	17.05	18.25	18.80	19.14	19.73	20.07	21.27
12H	4H	15.49	15.97	16.40	16.89	18.02	18.07	18.54	18.97	19.46	20.60
	6H	15.81	16.20	16.73	17.13	18.28	18.54	18.93	19.46	19.86	21.01
	8H	15.88	16.22	16.81	17.15	18.35	18.71	19.05	19.64	19.98	21.17