

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: P933812

Luminaire Tested: SQ4-FA-025U-050D-830-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933812
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-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

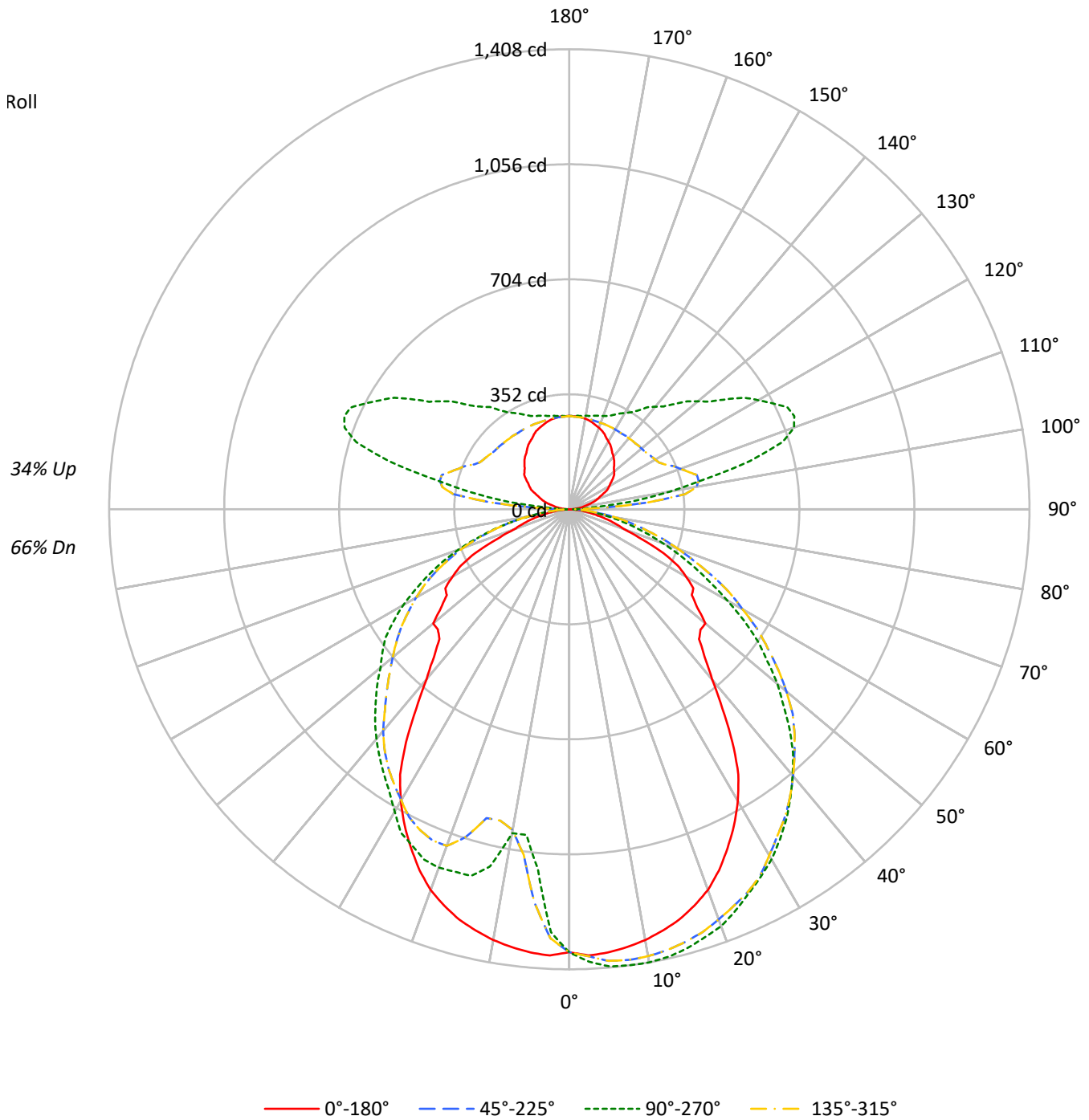
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5365.1 lumens
Efficiency: N/A
Efficacy: 121.9 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				66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55				55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46				46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39				39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34				34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29				29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26				26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23				23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20				20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18				18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16				16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6335	6348	6335	4992
10°	6293	6253	6293	4470
15°	6225	6118	6225	5108
20°	6094	5957	6094	5119
25°	5828	5723	5828	5010
30°	5484	5529	5484	4772
35°	4888	5283	4888	4510
40°	4073	4993	4073	4313
45°	3639	4655	3639	4086
50°	3867	4251	3867	3857
55°	3637	3816	3637	3725
60°	3750	3241	3750	3412
65°	3400	2679	3400	2995
70°	2354	2135	2354	2510
75°	2066	1578	2066	1890
80°	1662	1043	1662	1135
85°	960	553	960	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5578 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	2.3
10°-20°	347.4	6.5
20°-30°	537.0	10.0
30°-40°	641.0	11.9
40°-50°	644.8	12.0
50°-60°	561.1	10.5
60°-70°	397.8	7.4
70°-80°	210.5	3.9
80°-90°	53.5	1.0
90°-100°	139.1	2.6
100°-110°	365.7	6.8
110°-120°	379.2	7.1
120°-130°	304.1	5.7
130°-140°	238.6	4.4
140°-150°	183.2	3.4
150°-160°	131.9	2.5
160°-170°	80.7	1.5
170°-180°	27.3	0.5
0°-30°	1006.7	18.8
0°-40°	1647.7	30.7
0°-60°	2853.6	53.2
0°-90°	3515.4	65.5
90°-120°	883.9	16.5
90°-150°	1609.9	30.0
90°-180°	1850.0	34.5
0°-180°	5365.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1355	1355	1355	1355	1355	
5°	1362	1404	1362	1104	1362	129
15°	1300	1391	1300	1162	1300	366
25°	1145	1298	1145	1136	1145	526
35°	871	1158	871	989	871	539
45°	562	954	562	837	562	450
55°	458	704	458	687	458	421
65°	318	424	318	474	318	304
75°	121	201	121	241	121	127
85°	21	51	21	44	21	28
90°	2	7	2	7	2	2
95°	18	84	18	84	18	20
105°	66	572	66	572	66	70
115°	117	737	117	737	117	116
125°	163	587	163	587	163	144
135°	194	456	194	456	194	150
145°	225	370	225	370	225	141
155°	254	318	254	318	254	117
165°	274	296	274	296	274	77
175°	285	287	285	287	285	27
180°	285	285	285	285	285	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1366.9	1366.9	1374.6	1377.2	1377.2	1373.3	1369.5	1373.3	1384.9	1388.7	1387.4
5°	1361.8	1372.1	1386.2	1388.7	1391.3	1390.0	1387.4	1390.0	1402.8	1405.4	1406.7
7.5°	1351.5	1370.8	1388.7	1392.6	1396.4	1392.6	1391.3	1393.8	1406.7	1409.2	1409.2
10°	1338.7	1365.6	1386.2	1388.7	1392.6	1388.7	1388.7	1393.8	1406.7	1409.2	1410.5
12.5°	1320.7	1357.9	1377.2	1379.7	1384.9	1383.6	1382.3	1387.4	1400.3	1402.8	1402.8
15°	1300.3	1343.8	1361.8	1364.3	1373.3	1370.8	1370.8	1375.9	1390.0	1393.8	1392.6
17.5°	1272.1	1325.9	1346.4	1350.3	1356.7	1355.4	1356.7	1361.8	1374.6	1377.2	1378.5
20°	1239.9	1301.5	1325.9	1329.7	1336.1	1336.1	1336.1	1342.5	1355.4	1360.5	1360.5
22.5°	1196.3	1275.9	1301.5	1304.1	1311.8	1311.8	1314.3	1323.3	1334.9	1336.1	1336.1
25°	1145.1	1247.7	1269.5	1277.1	1284.9	1288.7	1292.5	1297.7	1301.5	1300.3	1301.5
27.5°	1091.3	1211.7	1239.9	1245.1	1255.3	1259.2	1264.3	1265.6	1266.9	1270.7	1268.2
30°	1031.0	1161.7	1204.1	1209.2	1225.9	1228.5	1223.3	1225.9	1232.3	1234.9	1237.4
32.5°	963.0	1087.4	1166.9	1178.5	1193.9	1186.1	1184.9	1188.7	1198.9	1198.9	1201.5
35°	870.6	1029.7	1132.3	1142.5	1154.1	1145.1	1150.3	1151.5	1157.9	1161.7	1160.5
37.5°	769.4	979.7	1096.3	1104.1	1113.1	1101.5	1109.2	1113.1	1118.1	1115.6	1115.6
40°	679.6	901.4	1054.1	1059.2	1066.9	1057.9	1065.6	1068.1	1070.7	1068.1	1066.9
42.5°	612.9	815.6	1009.2	1015.6	1010.4	1016.9	1019.4	1024.5	1020.7	1015.6	1015.6
45°	561.6	792.4	960.4	968.1	960.4	970.7	974.5	974.5	963.0	960.4	959.2
47.5°	545.0	746.3	911.7	911.7	907.8	920.7	927.1	918.1	906.6	902.8	902.8
50°	543.7	695.0	845.0	839.9	857.8	873.2	866.8	857.8	848.8	834.8	834.8
52.5°	493.7	632.2	759.2	778.4	806.6	815.6	805.2	796.3	781.0	774.5	769.4
55°	457.7	566.8	680.9	719.4	748.8	760.4	741.2	732.2	709.1	705.2	702.7
57.5°	450.1	471.9	609.1	657.8	693.7	692.4	680.9	664.2	645.0	641.2	639.9
60°	412.9	341.1	532.1	589.9	627.0	623.2	612.9	597.5	579.6	577.0	574.5
62.5°	374.5	247.5	444.9	510.3	562.9	561.6	552.7	529.6	516.7	510.3	505.2
65°	318.0	207.7	316.7	424.5	500.1	502.7	483.4	466.7	452.7	444.9	443.7
67.5°	242.3	169.3	214.1	353.9	439.9	437.3	412.9	405.2	387.3	383.5	375.7
70°	179.5	112.8	148.8	287.3	380.9	374.5	355.2	346.3	329.5	320.5	315.5
72.5°	148.8	91.0	109.0	223.1	320.5	312.9	296.2	285.9	271.9	264.1	259.0
75°	120.6	96.2	83.4	165.4	260.3	255.2	239.8	229.5	218.0	207.7	209.0
77.5°	88.5	89.8	66.6	121.8	206.5	198.8	189.8	177.0	171.8	161.6	161.6
80°	66.6	70.6	50.0	83.4	148.8	148.8	141.0	132.1	123.1	118.0	118.0
82.5°	44.8	44.8	37.2	52.6	101.3	97.4	92.3	89.8	84.6	82.0	82.0
85°	20.6	25.6	23.0	32.0	55.2	57.7	57.7	55.2	53.8	51.3	52.6
87.5°	6.4	11.6	14.1	18.0	28.2	29.5	30.8	30.8	30.8	32.0	32.0
90°	1.9	3.4	5.0	5.4	8.4	12.5	14.5	12.9	9.7	7.3	7.3
92.5°	7.6	20.6	33.7	37.0	52.0	72.0	81.9	71.8	51.6	36.4	35.0
95°	18.4	42.2	66.1	72.0	127.8	202.3	239.6	213.8	162.2	123.5	119.1
97.5°	31.8	52.9	73.8	79.1	172.2	296.4	358.5	342.2	309.6	285.2	276.9
100°	42.2	61.2	80.2	85.0	188.3	326.1	395.0	396.3	398.7	400.5	390.5
102.5°	51.0	68.7	86.5	90.9	195.8	335.6	405.4	426.2	467.7	498.8	490.3
105°	65.9	81.0	96.1	99.8	201.3	336.6	404.3	450.8	544.0	613.8	609.2
107.5°	81.2	95.2	109.3	112.8	202.3	321.6	381.3	446.2	576.1	673.5	674.6
110°	91.6	104.2	116.9	120.1	200.8	308.3	362.1	434.7	579.9	688.8	693.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	101.7	113.8	125.8	128.9	200.9	296.7	344.7	419.0	567.6	679.0	686.4
115°	117.0	128.1	139.3	142.1	202.7	283.5	323.8	395.4	538.6	646.0	656.1
117.5°	132.1	142.3	152.4	155.0	206.5	275.1	309.5	374.1	503.2	600.2	611.5
120°	140.9	150.5	160.0	162.4	209.6	272.4	303.7	362.7	480.8	569.3	580.2
122.5°	149.5	159.2	168.8	171.2	214.0	270.8	299.3	352.5	458.8	538.5	549.3
125°	162.8	171.6	180.3	182.5	219.9	269.7	294.5	339.7	430.0	497.7	507.6
127.5°	173.5	182.3	191.2	193.4	225.8	268.9	290.5	329.3	406.9	465.0	473.4
130°	179.2	188.8	198.3	200.7	230.1	269.4	289.0	323.5	392.5	444.3	452.0
132.5°	185.2	194.7	204.2	206.6	233.6	269.7	287.7	318.5	380.3	426.7	433.6
135°	194.0	202.7	211.4	213.6	237.5	269.4	285.4	311.3	363.0	401.8	407.7
137.5°	203.0	211.6	220.2	222.4	243.2	271.0	285.0	306.9	350.6	383.4	388.2
140°	210.4	218.4	226.3	228.3	246.7	271.3	283.6	302.6	340.3	368.6	373.2
142.5°	216.2	223.5	230.9	232.7	249.7	272.4	283.6	300.3	333.5	358.3	362.2
145°	225.0	231.4	237.8	239.4	253.5	272.4	281.7	295.3	322.5	342.8	345.8
147.5°	233.8	240.1	246.3	247.8	259.1	274.2	281.7	292.4	313.8	329.7	332.2
150°	239.6	245.2	250.8	252.2	262.0	275.1	281.7	290.7	308.8	322.3	324.3
152.5°	245.5	249.7	254.0	255.1	264.0	275.8	281.7	289.4	304.8	316.3	317.9
155°	254.3	257.5	260.6	261.4	268.2	277.2	281.7	287.9	300.1	309.3	310.2
157.5°	260.8	263.9	266.9	267.7	272.4	278.6	281.7	286.5	296.0	303.1	303.8
160°	265.2	267.6	270.0	270.5	274.3	279.2	281.7	285.8	294.0	300.1	300.5
162.5°	269.6	271.4	273.1	273.6	276.3	279.9	281.7	285.2	292.1	297.2	297.6
165°	274.5	276.1	277.7	278.1	279.3	281.0	281.7	284.2	289.1	292.8	293.2
167.5°	278.9	279.6	280.4	280.6	281.6	283.0	283.6	285.3	288.5	290.9	291.1
170°	281.7	282.5	283.3	283.5	283.5	283.6	283.6	285.3	288.5	290.9	290.9
172.5°	283.3	283.5	283.6	283.6	283.6	283.6	283.6	284.9	287.5	289.4	289.2
175°	285.4	285.4	285.4	285.4	284.8	284.0	283.6	284.4	286.0	287.3	287.3
177.5°	285.4	285.4	285.4	285.4	284.9	284.3	284.0	284.7	285.9	286.9	286.7
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1390.0	1386.2	1390.0	1387.4	1388.7	1384.9	1373.3	1369.5	1373.3	1377.2	1377.2
5°	1406.7	1404.1	1406.7	1406.7	1405.4	1402.8	1390.0	1387.4	1390.0	1391.3	1388.7
7.5°	1411.8	1408.0	1411.8	1409.2	1409.2	1406.7	1393.8	1391.3	1392.6	1396.4	1392.6
10°	1411.8	1408.0	1411.8	1410.5	1409.2	1406.7	1393.8	1388.7	1388.7	1392.6	1388.7
12.5°	1405.4	1402.8	1405.4	1402.8	1402.8	1400.3	1387.4	1382.3	1383.6	1384.9	1379.7
15°	1395.1	1391.3	1395.1	1392.6	1393.8	1390.0	1375.9	1370.8	1370.8	1373.3	1364.3
17.5°	1379.7	1374.6	1379.7	1378.5	1377.2	1374.6	1361.8	1356.7	1355.4	1356.7	1350.3
20°	1361.8	1357.9	1361.8	1360.5	1360.5	1355.4	1342.5	1336.1	1336.1	1336.1	1329.7
22.5°	1333.6	1329.7	1333.6	1336.1	1336.1	1334.9	1323.3	1314.3	1311.8	1311.8	1304.1
25°	1301.5	1297.7	1301.5	1301.5	1300.3	1301.5	1297.7	1292.5	1288.7	1284.9	1277.1
27.5°	1270.7	1268.2	1270.7	1268.2	1270.7	1266.9	1265.6	1264.3	1259.2	1255.3	1245.1
30°	1239.9	1237.4	1239.9	1237.4	1234.9	1232.3	1225.9	1223.3	1228.5	1225.9	1209.2
32.5°	1201.5	1198.9	1201.5	1201.5	1198.9	1198.9	1188.7	1184.9	1186.1	1193.9	1178.5
35°	1161.7	1157.9	1161.7	1160.5	1161.7	1157.9	1151.5	1150.3	1145.1	1154.1	1142.5
37.5°	1115.6	1111.7	1115.6	1115.6	1115.6	1118.1	1113.1	1109.2	1101.5	1113.1	1104.1
40°	1068.1	1063.0	1068.1	1066.9	1068.1	1070.7	1068.1	1065.6	1057.9	1066.9	1059.2
42.5°	1014.3	1013.0	1014.3	1015.6	1015.6	1020.7	1024.5	1019.4	1016.9	1010.4	1015.6
45°	956.6	954.0	956.6	959.2	960.4	963.0	974.5	974.5	970.7	960.4	968.1
47.5°	895.0	888.6	895.0	902.8	902.8	906.6	918.1	927.1	920.7	907.8	911.7
50°	829.6	831.0	829.6	834.8	834.8	848.8	857.8	866.8	873.2	857.8	839.9
52.5°	765.6	764.2	765.6	769.4	774.5	781.0	796.3	805.2	815.6	806.6	778.4
55°	701.4	704.0	701.4	702.7	705.2	709.1	732.2	741.2	760.4	748.8	719.4
57.5°	637.3	633.4	637.3	639.9	641.2	645.0	664.2	680.9	692.4	693.7	657.8
60°	562.9	557.8	562.9	574.5	577.0	579.6	597.5	612.9	623.2	627.0	589.9
62.5°	497.5	488.5	497.5	505.2	510.3	516.7	529.6	552.7	561.6	562.9	510.3
65°	428.3	424.5	428.3	443.7	444.9	452.7	466.7	483.4	502.7	500.1	424.5
67.5°	365.5	365.5	365.5	375.7	383.5	387.3	405.2	412.9	437.3	439.9	353.9
70°	307.7	306.5	307.7	315.5	320.5	329.5	346.3	355.2	374.5	380.9	287.3
72.5°	252.6	251.3	252.6	259.0	264.1	271.9	285.9	296.2	312.9	320.5	223.1
75°	203.9	201.3	203.9	209.0	207.7	218.0	229.5	239.8	255.2	260.3	165.4
77.5°	156.4	156.4	156.4	161.6	161.6	171.8	177.0	189.8	198.8	206.5	121.8
80°	116.7	115.4	116.7	118.0	118.0	123.1	132.1	141.0	148.8	148.8	83.4
82.5°	82.0	79.5	82.0	82.0	82.0	84.6	89.8	92.3	97.4	101.3	52.6
85°	51.3	51.3	51.3	52.6	51.3	53.8	55.2	57.7	57.7	55.2	32.0
87.5°	33.4	32.0	33.4	32.0	32.0	30.8	30.8	30.8	29.5	28.2	18.0
90°	7.3	7.3	7.3	7.3	7.3	9.7	12.9	14.5	12.5	8.4	5.4
92.5°	29.2	23.3	29.2	35.0	36.4	51.6	71.8	81.9	72.0	52.0	37.0
95°	101.6	84.0	101.6	119.1	123.5	162.2	213.8	239.6	202.3	127.8	72.0
97.5°	243.4	210.0	243.4	276.9	285.2	309.6	342.2	358.5	296.4	172.2	79.1
100°	350.8	311.0	350.8	390.5	400.5	398.7	396.3	395.0	326.1	188.3	85.0
102.5°	456.3	422.3	456.3	490.3	498.8	467.7	426.2	405.4	335.6	195.8	90.9
105°	590.9	572.5	590.9	609.2	613.8	544.0	450.8	404.3	336.6	201.3	99.8
107.5°	679.0	683.4	679.0	674.6	673.5	576.1	446.2	381.3	321.6	202.3	112.8
110°	712.6	731.7	712.6	693.6	688.8	579.9	434.7	362.1	308.3	200.8	120.1



TEST NUMBER: P933812

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	715.7	744.9	715.7	686.4	679.0	567.6	419.0	344.7	296.7	200.9	128.9
115°	696.7	737.3	696.7	656.1	646.0	538.6	395.4	323.8	283.5	202.7	142.1
117.5°	656.5	701.5	656.5	611.5	600.2	503.2	374.1	309.5	275.1	206.5	155.0
120°	624.0	667.8	624.0	580.2	569.3	480.8	362.7	303.7	272.4	209.6	162.4
122.5°	592.4	635.5	592.4	549.3	538.5	458.8	352.5	299.3	270.8	214.0	171.2
125°	547.4	587.2	547.4	507.6	497.7	430.0	339.7	294.5	269.7	219.9	182.5
127.5°	506.9	540.4	506.9	473.4	465.0	406.9	329.3	290.5	268.9	225.8	193.4
130°	483.0	513.9	483.0	452.0	444.3	392.5	323.5	289.0	269.4	230.1	200.7
132.5°	461.4	489.1	461.4	433.6	426.7	380.3	318.5	287.7	269.7	233.6	206.6
135°	431.6	455.5	431.6	407.7	401.8	363.0	311.3	285.4	269.4	237.5	213.6
137.5°	407.8	427.4	407.8	388.2	383.4	350.6	306.9	285.0	271.0	243.2	222.4
140°	391.5	409.8	391.5	373.2	368.6	340.3	302.6	283.6	271.3	246.7	228.3
142.5°	378.0	393.7	378.0	362.2	358.3	333.5	300.3	283.6	272.4	249.7	232.7
145°	357.7	369.6	357.7	345.8	342.8	322.5	295.3	281.7	272.4	253.5	239.4
147.5°	342.1	352.0	342.1	332.2	329.7	313.8	292.4	281.7	274.2	259.1	247.8
150°	332.3	340.3	332.3	324.3	322.3	308.8	290.7	281.7	275.1	262.0	252.2
152.5°	323.9	329.9	323.9	317.9	316.3	304.8	289.4	281.7	275.8	264.0	255.1
155°	314.2	318.3	314.2	310.2	309.3	300.1	287.9	281.7	277.2	268.2	261.4
157.5°	306.7	309.5	306.7	303.8	303.1	296.0	286.5	281.7	278.6	272.4	267.7
160°	302.1	303.7	302.1	300.5	300.1	294.0	285.8	281.7	279.2	274.3	270.5
162.5°	299.1	300.7	299.1	297.6	297.2	292.1	285.2	281.7	279.9	276.3	273.6
165°	294.8	296.5	294.8	293.2	292.8	289.1	284.2	281.7	281.0	279.3	278.1
167.5°	291.8	292.4	291.8	291.1	290.9	288.5	285.3	283.6	283.0	281.6	280.6
170°	290.9	290.9	290.9	290.9	290.9	288.5	285.3	283.6	283.6	283.5	283.5
172.5°	288.6	288.0	288.6	289.2	289.4	287.5	284.9	283.6	283.6	283.6	283.6
175°	287.3	287.3	287.3	287.3	287.3	286.0	284.4	283.6	284.0	284.8	285.4
177.5°	286.0	285.4	286.0	286.7	286.9	285.9	284.7	284.0	284.3	284.9	285.4
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933812

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1374.6	1366.9	1366.9	1354.1	1349.0	1345.1	1338.7	1319.5	1314.3	1309.2	1316.9
5°	1386.2	1372.1	1361.8	1338.7	1319.5	1311.8	1287.4	1241.3	1210.5	1187.4	1174.5
7.5°	1388.7	1370.8	1351.5	1315.6	1269.5	1248.9	1174.5	1089.9	1066.9	1046.3	1033.5
10°	1386.2	1365.6	1338.7	1284.9	1175.9	1139.9	1065.6	1010.4	996.3	992.5	996.3
12.5°	1377.2	1357.9	1320.7	1231.0	1078.4	1054.1	1010.4	978.4	975.8	982.2	1016.9
15°	1361.8	1343.8	1300.3	1159.1	1024.5	1006.6	975.8	964.3	978.4	1023.3	1127.1
17.5°	1346.4	1325.9	1272.1	1088.7	983.5	970.7	948.9	972.0	1051.5	1111.7	1146.3
20°	1325.9	1301.5	1239.9	1037.4	954.0	942.5	932.2	1036.1	1096.3	1118.1	1137.4
22.5°	1301.5	1275.9	1196.3	1001.5	923.2	914.3	920.7	1072.0	1096.3	1111.7	1128.4
25°	1269.5	1247.7	1145.1	973.3	898.9	888.6	913.0	1068.1	1082.3	1086.1	1119.5
27.5°	1239.9	1211.7	1091.3	947.6	869.4	865.6	919.4	1051.5	1061.7	1065.6	1101.5
30°	1204.1	1161.7	1031.0	920.7	838.6	837.4	920.7	1031.0	1028.4	1038.7	1074.5
32.5°	1166.9	1087.4	963.0	887.4	809.2	807.8	911.7	1000.2	997.6	1011.7	1038.7
35°	1132.3	1029.7	870.6	848.8	772.0	773.2	889.9	964.3	965.6	978.4	995.1
37.5°	1096.3	979.7	769.4	806.6	736.0	736.0	860.4	931.0	928.4	932.2	955.3
40°	1054.1	901.4	679.6	751.4	702.7	698.8	824.6	895.0	886.0	884.8	916.8
42.5°	1009.2	815.6	612.9	678.4	664.2	659.1	781.0	851.4	834.8	838.6	879.6
45°	960.4	792.4	561.6	573.2	624.5	620.6	733.4	801.4	789.8	800.2	842.4
47.5°	911.7	746.3	545.0	475.7	582.2	580.9	680.9	752.7	746.3	756.6	801.4
50°	845.0	695.0	543.7	407.7	534.7	539.9	618.1	705.2	705.2	714.2	761.6
52.5°	759.2	632.2	493.7	369.3	479.5	494.9	562.9	664.2	666.8	675.8	718.1
55°	680.9	566.8	457.7	339.8	414.1	447.5	509.1	621.9	627.0	636.0	674.5
57.5°	609.1	471.9	450.1	305.2	353.9	385.9	461.7	580.9	583.4	591.1	628.3
60°	532.1	341.1	412.9	268.0	301.3	325.7	418.1	532.1	541.1	546.3	578.3
62.5°	444.9	247.5	374.5	242.3	275.7	280.8	382.1	486.0	497.5	501.4	520.6
65°	316.7	207.7	318.0	220.5	248.8	250.1	343.7	438.5	448.8	455.2	469.3
67.5°	214.1	169.3	242.3	200.0	228.3	229.5	306.5	383.5	397.5	402.7	411.7
70°	148.8	112.8	179.5	178.2	205.2	207.7	266.7	333.4	346.3	350.1	355.2
72.5°	109.0	91.0	148.8	160.3	180.8	183.4	225.7	277.0	289.8	293.7	296.2
75°	83.4	96.2	120.6	139.8	153.9	155.2	184.6	225.7	234.7	237.2	238.5
77.5°	66.6	89.8	88.5	112.8	125.6	123.1	144.9	174.4	182.1	182.1	182.1
80°	50.0	70.6	66.6	80.8	92.3	89.8	103.8	124.4	127.0	129.5	128.2
82.5°	37.2	44.8	44.8	51.3	61.6	59.0	69.2	80.8	80.8	80.8	83.4
85°	23.0	25.6	20.6	27.0	34.6	33.4	38.4	43.6	44.8	44.8	42.4
87.5°	14.1	11.6	6.4	10.2	15.4	15.4	18.0	19.2	18.0	18.0	18.0
90°	5.0	3.4	1.9	3.4	5.0	5.4	8.4	12.5	14.5	12.9	9.7
92.5°	33.7	20.6	7.6	20.6	33.7	37.0	52.0	72.0	81.9	71.8	51.6
95°	66.1	42.2	18.4	42.2	66.1	72.0	127.8	202.3	239.6	213.8	162.2
97.5°	73.8	52.9	31.8	52.9	73.8	79.1	172.2	296.4	358.5	342.2	309.6
100°	80.2	61.2	42.2	61.2	80.2	85.0	188.3	326.1	395.0	396.3	398.7
102.5°	86.5	68.7	51.0	68.7	86.5	90.9	195.8	335.6	405.4	426.2	467.7
105°	96.1	81.0	65.9	81.0	96.1	99.8	201.3	336.6	404.3	450.8	544.0
107.5°	109.3	95.2	81.2	95.2	109.3	112.8	202.3	321.6	381.3	446.2	576.1
110°	116.9	104.2	91.6	104.2	116.9	120.1	200.8	308.3	362.1	434.7	579.9



TEST NUMBER: P933812

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	125.8	113.8	101.7	113.8	125.8	128.9	200.9	296.7	344.7	419.0	567.6
115°	139.3	128.1	117.0	128.1	139.3	142.1	202.7	283.5	323.8	395.4	538.6
117.5°	152.4	142.3	132.1	142.3	152.4	155.0	206.5	275.1	309.5	374.1	503.2
120°	160.0	150.5	140.9	150.5	160.0	162.4	209.6	272.4	303.7	362.7	480.8
122.5°	168.8	159.2	149.5	159.2	168.8	171.2	214.0	270.8	299.3	352.5	458.8
125°	180.3	171.6	162.8	171.6	180.3	182.5	219.9	269.7	294.5	339.7	430.0
127.5°	191.2	182.3	173.5	182.3	191.2	193.4	225.8	268.9	290.5	329.3	406.9
130°	198.3	188.8	179.2	188.8	198.3	200.7	230.1	269.4	289.0	323.5	392.5
132.5°	204.2	194.7	185.2	194.7	204.2	206.6	233.6	269.7	287.7	318.5	380.3
135°	211.4	202.7	194.0	202.7	211.4	213.6	237.5	269.4	285.4	311.3	363.0
137.5°	220.2	211.6	203.0	211.6	220.2	222.4	243.2	271.0	285.0	306.9	350.6
140°	226.3	218.4	210.4	218.4	226.3	228.3	246.7	271.3	283.6	302.6	340.3
142.5°	230.9	223.5	216.2	223.5	230.9	232.7	249.7	272.4	283.6	300.3	333.5
145°	237.8	231.4	225.0	231.4	237.8	239.4	253.5	272.4	281.7	295.3	322.5
147.5°	246.3	240.1	233.8	240.1	246.3	247.8	259.1	274.2	281.7	292.4	313.8
150°	250.8	245.2	239.6	245.2	250.8	252.2	262.0	275.1	281.7	290.7	308.8
152.5°	254.0	249.7	245.5	249.7	254.0	255.1	264.0	275.8	281.7	289.4	304.8
155°	260.6	257.5	254.3	257.5	260.6	261.4	268.2	277.2	281.7	287.9	300.1
157.5°	266.9	263.9	260.8	263.9	266.9	267.7	272.4	278.6	281.7	286.5	296.0
160°	270.0	267.6	265.2	267.6	270.0	270.5	274.3	279.2	281.7	285.8	294.0
162.5°	273.1	271.4	269.6	271.4	273.1	273.6	276.3	279.9	281.7	285.2	292.1
165°	277.7	276.1	274.5	276.1	277.7	278.1	279.3	281.0	281.7	284.2	289.1
167.5°	280.4	279.6	278.9	279.6	280.4	280.6	281.6	283.0	283.6	285.3	288.5
170°	283.3	282.5	281.7	282.5	283.3	283.5	283.5	283.6	283.6	285.3	288.5
172.5°	283.6	283.5	283.3	283.5	283.6	283.6	283.6	283.6	283.6	284.9	287.5
175°	285.4	285.4	285.4	285.4	285.4	285.4	284.8	284.0	283.6	284.4	286.0
177.5°	285.4	285.4	285.4	285.4	285.4	285.4	284.9	284.3	284.0	284.7	285.9
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933812

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1307.9	1304.1	1309.2	1295.1	1309.2	1304.1	1307.9	1316.9	1309.2	1314.3	1319.5
5°	1147.7	1141.3	1120.7	1104.1	1120.7	1141.3	1147.7	1174.5	1187.4	1210.5	1241.3
7.5°	1025.8	1020.7	1015.6	1005.3	1015.6	1020.7	1025.8	1033.5	1046.3	1066.9	1089.9
10°	998.9	1000.2	1007.9	1006.6	1007.9	1000.2	998.9	996.3	992.5	996.3	1010.4
12.5°	1068.1	1079.7	1122.0	1119.5	1122.0	1079.7	1068.1	1016.9	982.2	975.8	978.4
15°	1147.7	1151.5	1160.5	1161.7	1160.5	1151.5	1147.7	1127.1	1023.3	978.4	964.3
17.5°	1155.3	1156.7	1163.1	1163.1	1163.1	1156.7	1155.3	1146.3	1111.7	1051.5	972.0
20°	1148.9	1151.5	1164.3	1166.9	1164.3	1151.5	1148.9	1137.4	1118.1	1096.3	1036.1
22.5°	1146.3	1151.5	1161.7	1160.5	1161.7	1151.5	1146.3	1128.4	1111.7	1096.3	1072.0
25°	1133.5	1133.5	1134.9	1136.1	1134.9	1133.5	1133.5	1119.5	1086.1	1082.3	1068.1
27.5°	1106.6	1109.2	1116.9	1115.6	1116.9	1109.2	1106.6	1101.5	1065.6	1061.7	1051.5
30°	1082.3	1079.7	1073.3	1068.1	1073.3	1079.7	1082.3	1074.5	1038.7	1028.4	1031.0
32.5°	1041.2	1034.8	1028.4	1024.5	1028.4	1034.8	1041.2	1038.7	1011.7	997.6	1000.2
35°	992.5	993.8	992.5	988.6	992.5	993.8	992.5	995.1	978.4	965.6	964.3
37.5°	957.9	960.4	959.2	954.0	959.2	960.4	957.9	955.3	932.2	928.4	931.0
40°	922.0	923.2	922.0	918.1	922.0	923.2	922.0	916.8	884.8	886.0	895.0
42.5°	887.4	886.0	882.2	879.6	882.2	886.0	887.4	879.6	838.6	834.8	851.4
45°	847.6	848.8	841.2	837.4	841.2	848.8	847.6	842.4	800.2	789.8	801.4
47.5°	807.8	807.8	801.4	797.6	801.4	807.8	807.8	801.4	756.6	746.3	752.7
50°	765.6	764.2	755.2	754.0	755.2	764.2	765.6	761.6	714.2	705.2	705.2
52.5°	716.8	716.8	718.1	720.6	718.1	716.8	716.8	718.1	675.8	666.8	664.2
55°	674.5	675.8	684.8	687.3	684.8	675.8	674.5	674.5	636.0	627.0	621.9
57.5°	630.9	630.9	637.3	637.3	637.3	630.9	630.9	628.3	591.1	583.4	580.9
60°	580.9	583.4	588.6	587.3	588.6	583.4	580.9	578.3	546.3	541.1	532.1
62.5°	528.3	530.9	532.1	529.6	532.1	530.9	528.3	520.6	501.4	497.5	486.0
65°	473.1	475.7	477.0	474.5	477.0	475.7	473.1	469.3	455.2	448.8	438.5
67.5°	416.7	415.5	414.1	419.3	414.1	415.5	416.7	411.7	402.7	397.5	383.5
70°	359.1	359.1	357.7	360.3	357.7	359.1	359.1	355.2	350.1	346.3	333.4
72.5°	297.5	296.2	301.3	297.5	301.3	296.2	297.5	296.2	293.7	289.8	277.0
75°	237.2	239.8	237.2	241.1	237.2	239.8	237.2	238.5	237.2	234.7	225.7
77.5°	180.8	183.4	180.8	180.8	180.8	183.4	180.8	182.1	182.1	182.1	174.4
80°	128.2	127.0	127.0	125.6	127.0	127.0	128.2	128.2	129.5	127.0	124.4
82.5°	82.0	80.8	80.8	83.4	80.8	80.8	82.0	83.4	80.8	80.8	80.8
85°	44.8	46.2	43.6	43.6	43.6	46.2	44.8	42.4	44.8	44.8	43.6
87.5°	16.6	15.4	15.4	15.4	15.4	15.4	16.6	18.0	18.0	18.0	19.2
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	12.9	14.5	12.5
92.5°	36.4	35.0	29.2	23.3	29.2	35.0	36.4	51.6	71.8	81.9	72.0
95°	123.5	119.1	101.6	84.0	101.6	119.1	123.5	162.2	213.8	239.6	202.3
97.5°	285.2	276.9	243.4	210.0	243.4	276.9	285.2	309.6	342.2	358.5	296.4
100°	400.5	390.5	350.8	311.0	350.8	390.5	400.5	398.7	396.3	395.0	326.1
102.5°	498.8	490.3	456.3	422.3	456.3	490.3	498.8	467.7	426.2	405.4	335.6
105°	613.8	609.2	590.9	572.5	590.9	609.2	613.8	544.0	450.8	404.3	336.6
107.5°	673.5	674.6	679.0	683.4	679.0	674.6	673.5	576.1	446.2	381.3	321.6
110°	688.8	693.6	712.6	731.7	712.6	693.6	688.8	579.9	434.7	362.1	308.3



TEST NUMBER: P933812

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	679.0	686.4	715.7	744.9	715.7	686.4	679.0	567.6	419.0	344.7	296.7
115°	646.0	656.1	696.7	737.3	696.7	656.1	646.0	538.6	395.4	323.8	283.5
117.5°	600.2	611.5	656.5	701.5	656.5	611.5	600.2	503.2	374.1	309.5	275.1
120°	569.3	580.2	624.0	667.8	624.0	580.2	569.3	480.8	362.7	303.7	272.4
122.5°	538.5	549.3	592.4	635.5	592.4	549.3	538.5	458.8	352.5	299.3	270.8
125°	497.7	507.6	547.4	587.2	547.4	507.6	497.7	430.0	339.7	294.5	269.7
127.5°	465.0	473.4	506.9	540.4	506.9	473.4	465.0	406.9	329.3	290.5	268.9
130°	444.3	452.0	483.0	513.9	483.0	452.0	444.3	392.5	323.5	289.0	269.4
132.5°	426.7	433.6	461.4	489.1	461.4	433.6	426.7	380.3	318.5	287.7	269.7
135°	401.8	407.7	431.6	455.5	431.6	407.7	401.8	363.0	311.3	285.4	269.4
137.5°	383.4	388.2	407.8	427.4	407.8	388.2	383.4	350.6	306.9	285.0	271.0
140°	368.6	373.2	391.5	409.8	391.5	373.2	368.6	340.3	302.6	283.6	271.3
142.5°	358.3	362.2	378.0	393.7	378.0	362.2	358.3	333.5	300.3	283.6	272.4
145°	342.8	345.8	357.7	369.6	357.7	345.8	342.8	322.5	295.3	281.7	272.4
147.5°	329.7	332.2	342.1	352.0	342.1	332.2	329.7	313.8	292.4	281.7	274.2
150°	322.3	324.3	332.3	340.3	332.3	324.3	322.3	308.8	290.7	281.7	275.1
152.5°	316.3	317.9	323.9	329.9	323.9	317.9	316.3	304.8	289.4	281.7	275.8
155°	309.3	310.2	314.2	318.3	314.2	310.2	309.3	300.1	287.9	281.7	277.2
157.5°	303.1	303.8	306.7	309.5	306.7	303.8	303.1	296.0	286.5	281.7	278.6
160°	300.1	300.5	302.1	303.7	302.1	300.5	300.1	294.0	285.8	281.7	279.2
162.5°	297.2	297.6	299.1	300.7	299.1	297.6	297.2	292.1	285.2	281.7	279.9
165°	292.8	293.2	294.8	296.5	294.8	293.2	292.8	289.1	284.2	281.7	281.0
167.5°	290.9	291.1	291.8	292.4	291.8	291.1	290.9	288.5	285.3	283.6	283.0
170°	290.9	290.9	290.9	290.9	290.9	290.9	290.9	288.5	285.3	283.6	283.6
172.5°	289.4	289.2	288.6	288.0	288.6	289.2	289.4	287.5	284.9	283.6	283.6
175°	287.3	287.3	287.3	287.3	287.3	287.3	287.3	286.0	284.4	283.6	284.0
177.5°	286.9	286.7	286.0	285.4	286.0	286.7	286.9	285.9	284.7	284.0	284.3
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1338.7	1345.1	1349.0	1354.1	1366.9
5°	1287.4	1311.8	1319.5	1338.7	1361.8
7.5°	1174.5	1248.9	1269.5	1315.6	1351.5
10°	1065.6	1139.9	1175.9	1284.9	1338.7
12.5°	1010.4	1054.1	1078.4	1231.0	1320.7
15°	975.8	1006.6	1024.5	1159.1	1300.3
17.5°	948.9	970.7	983.5	1088.7	1272.1
20°	932.2	942.5	954.0	1037.4	1239.9
22.5°	920.7	914.3	923.2	1001.5	1196.3
25°	913.0	888.6	898.9	973.3	1145.1
27.5°	919.4	865.6	869.4	947.6	1091.3
30°	920.7	837.4	838.6	920.7	1031.0
32.5°	911.7	807.8	809.2	887.4	963.0
35°	889.9	773.2	772.0	848.8	870.6
37.5°	860.4	736.0	736.0	806.6	769.4
40°	824.6	698.8	702.7	751.4	679.6
42.5°	781.0	659.1	664.2	678.4	612.9
45°	733.4	620.6	624.5	573.2	561.6
47.5°	680.9	580.9	582.2	475.7	545.0
50°	618.1	539.9	534.7	407.7	543.7
52.5°	562.9	494.9	479.5	369.3	493.7
55°	509.1	447.5	414.1	339.8	457.7
57.5°	461.7	385.9	353.9	305.2	450.1
60°	418.1	325.7	301.3	268.0	412.9
62.5°	382.1	280.8	275.7	242.3	374.5
65°	343.7	250.1	248.8	220.5	318.0
67.5°	306.5	229.5	228.3	200.0	242.3
70°	266.7	207.7	205.2	178.2	179.5
72.5°	225.7	183.4	180.8	160.3	148.8
75°	184.6	155.2	153.9	139.8	120.6
77.5°	144.9	123.1	125.6	112.8	88.5
80°	103.8	89.8	92.3	80.8	66.6
82.5°	69.2	59.0	61.6	51.3	44.8
85°	38.4	33.4	34.6	27.0	20.6
87.5°	18.0	15.4	15.4	10.2	6.4
90°	8.4	5.4	5.0	3.4	1.9
92.5°	52.0	37.0	33.7	20.6	7.6
95°	127.8	72.0	66.1	42.2	18.4
97.5°	172.2	79.1	73.8	52.9	31.8
100°	188.3	85.0	80.2	61.2	42.2
102.5°	195.8	90.9	86.5	68.7	51.0
105°	201.3	99.8	96.1	81.0	65.9
107.5°	202.3	112.8	109.3	95.2	81.2
110°	200.8	120.1	116.9	104.2	91.6



TEST NUMBER: P933812

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	200.9	128.9	125.8	113.8	101.7
115°	202.7	142.1	139.3	128.1	117.0
117.5°	206.5	155.0	152.4	142.3	132.1
120°	209.6	162.4	160.0	150.5	140.9
122.5°	214.0	171.2	168.8	159.2	149.5
125°	219.9	182.5	180.3	171.6	162.8
127.5°	225.8	193.4	191.2	182.3	173.5
130°	230.1	200.7	198.3	188.8	179.2
132.5°	233.6	206.6	204.2	194.7	185.2
135°	237.5	213.6	211.4	202.7	194.0
137.5°	243.2	222.4	220.2	211.6	203.0
140°	246.7	228.3	226.3	218.4	210.4
142.5°	249.7	232.7	230.9	223.5	216.2
145°	253.5	239.4	237.8	231.4	225.0
147.5°	259.1	247.8	246.3	240.1	233.8
150°	262.0	252.2	250.8	245.2	239.6
152.5°	264.0	255.1	254.0	249.7	245.5
155°	268.2	261.4	260.6	257.5	254.3
157.5°	272.4	267.7	266.9	263.9	260.8
160°	274.3	270.5	270.0	267.6	265.2
162.5°	276.3	273.6	273.1	271.4	269.6
165°	279.3	278.1	277.7	276.1	274.5
167.5°	281.6	280.6	280.4	279.6	278.9
170°	283.5	283.5	283.3	282.5	281.7
172.5°	283.6	283.6	283.6	283.5	283.3
175°	284.8	285.4	285.4	285.4	285.4
177.5°	284.9	285.4	285.4	285.4	285.4
180°	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933812
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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	12.52	13.54	13.33	14.37	15.40	15.35	16.38	16.17	17.21	18.24
	3H	13.01	13.92	13.83	14.77	15.82	16.72	17.63	17.54	18.47	19.53
	4H	13.20	14.07	14.05	14.92	15.99	17.17	18.03	18.01	18.88	19.95
	6H	13.33	14.13	14.19	14.99	16.07	17.46	18.26	18.32	19.12	20.20
	8H	13.34	14.10	14.20	14.97	16.06	17.54	18.30	18.41	19.18	20.26
	12H	13.31	14.04	14.18	14.91	16.02	17.59	18.31	18.46	19.18	20.29
4H	2H	13.57	14.44	14.42	15.29	16.36	15.78	16.65	16.63	17.50	18.57
	3H	14.61	15.33	15.47	16.22	17.30	17.31	18.03	18.16	18.91	20.00
	4H	14.90	15.55	15.77	16.43	17.54	17.84	18.50	18.71	19.38	20.49
	6H	15.03	15.60	15.92	16.50	17.62	18.22	18.79	19.10	19.69	20.81
	8H	15.04	15.57	15.93	16.47	17.60	18.33	18.86	19.22	19.76	20.89
	12H	15.01	15.49	15.92	16.41	17.54	18.40	18.87	19.30	19.79	20.93
8H	4H	15.36	15.89	16.25	16.79	17.92	17.98	18.51	18.87	19.41	20.54
	6H	15.63	16.07	16.55	17.01	18.14	18.42	18.86	19.34	19.80	20.93
	8H	15.68	16.06	16.60	17.00	18.14	18.58	18.97	19.51	19.90	21.05
	12H	15.67	16.01	16.60	16.93	18.13	18.69	19.03	19.62	19.95	21.15
12H	4H	15.38	15.85	16.29	16.77	17.91	17.95	18.43	18.86	19.35	20.48
	6H	15.69	16.08	16.62	17.02	18.16	18.42	18.81	19.35	19.75	20.89
	8H	15.77	16.11	16.70	17.04	18.23	18.59	18.93	19.52	19.86	21.06