

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: P935874

Luminaire Tested: SQ4-FA-150U-050D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

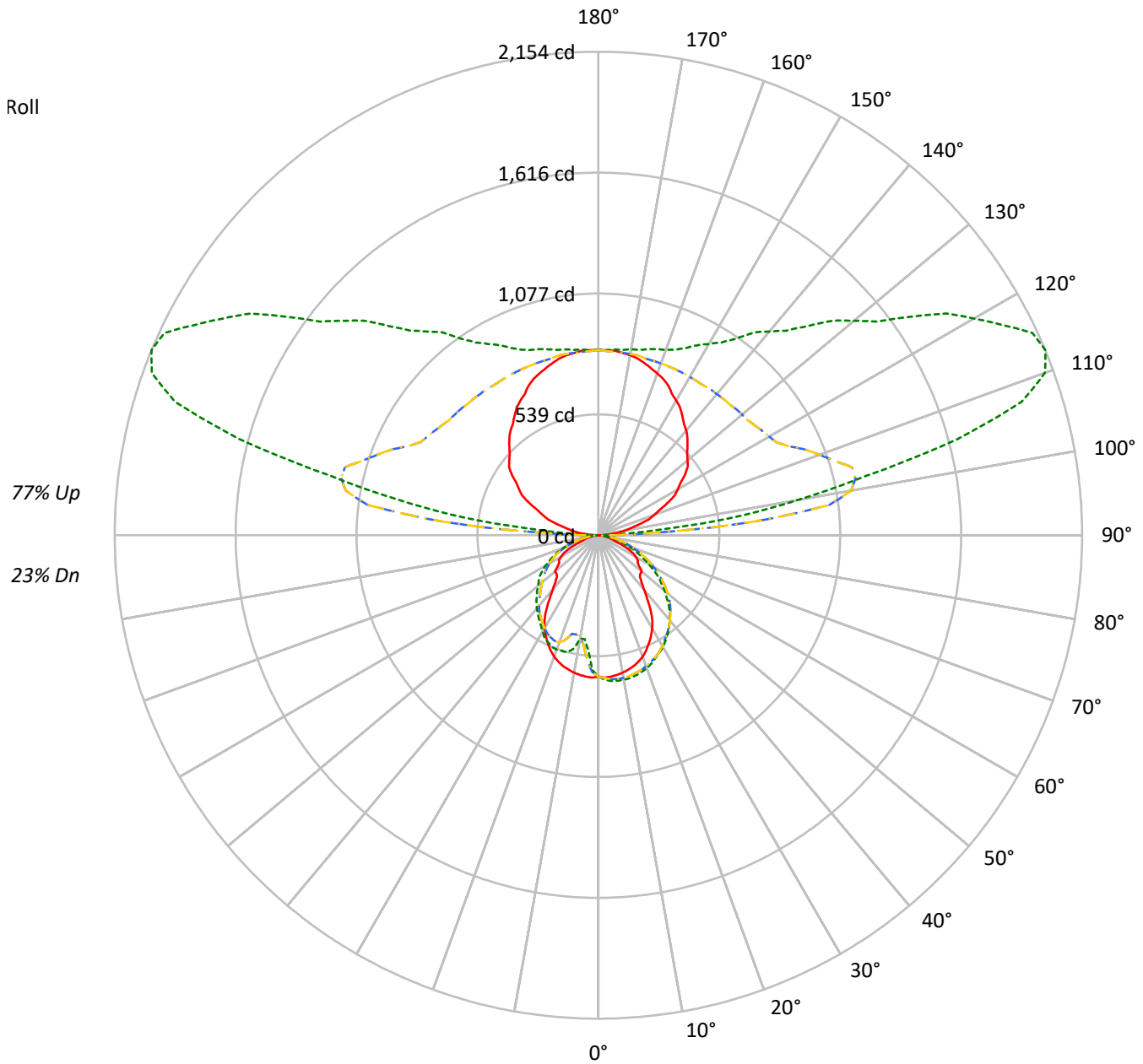
Test Method: LM-79-2019  
Report Number: P935874  
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6985.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 55.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P935874  
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### Luminous Intensity Polar Plot



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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5841	5841	5841	5841
5°	5878	5896	5878	4636
10°	5833	5808	5833	4152
15°	5762	5683	5762	4744
20°	5636	5534	5636	4754
25°	5382	5316	5382	4654
30°	5057	5135	5057	4433
35°	4502	4907	4502	4190
40°	3744	4638	3744	4006
45°	3339	4324	3339	3795
50°	3540	3948	3540	3582
55°	3321	3545	3321	3460
60°	3412	3009	3412	3170
65°	3078	2488	3078	2781
70°	2117	1982	2117	2332
75°	1833	1466	1833	1756
80°	1451	969	1451	1054
85°	787	513	787	435

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5128 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	0.8
10°-20°	161.3	2.3
20°-30°	249.4	3.6
30°-40°	297.7	4.3
40°-50°	299.5	4.3
50°-60°	260.6	3.7
60°-70°	184.7	2.6
70°-80°	97.7	1.4
80°-90°	27.5	0.4
90°-100°	402.3	5.8
100°-110°	1057.6	15.1
110°-120°	1096.6	15.7
120°-130°	879.6	12.6
130°-140°	690.2	9.9
140°-150°	529.7	7.6
150°-160°	381.5	5.5
160°-170°	233.4	3.3
170°-180°	78.9	1.1
<b>0°-30°</b>	<b>467.5</b>	<b>6.7</b>
<b>0°-40°</b>	<b>765.3</b>	<b>11.0</b>
<b>0°-60°</b>	<b>1325.3</b>	<b>19.0</b>
<b>0°-90°</b>	<b>1635.3</b>	<b>23.4</b>
<b>90°-120°</b>	<b>2556.5</b>	<b>36.6</b>
<b>90°-150°</b>	<b>4656.0</b>	<b>66.7</b>
<b>90°-180°</b>	<b>5350.0</b>	<b>76.6</b>
<b>0°-180°</b>	<b>6985.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	630	630	630	630	630	
5°	632	652	632	513	632	60
15°	604	646	604	540	604	170
25°	532	603	532	528	532	244
35°	404	538	404	459	404	250
45°	261	443	261	389	261	209
55°	213	327	213	319	213	195
65°	148	197	148	220	148	141
75°	56	94	56	112	56	59
85°	10	24	10	20	10	13
90°	6	21	6	21	6	5
95°	53	243	53	243	53	59
105°	191	1656	191	1656	191	202
115°	338	2132	338	2132	338	334
125°	471	1698	471	1698	471	418
135°	561	1318	561	1318	561	434
145°	651	1069	651	1069	651	408
155°	736	920	736	920	736	338
165°	794	857	794	857	794	224
175°	825	831	825	831	825	78
180°	825	825	825	825	825	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	634.8	634.8	638.4	639.6	639.6	637.9	636.1	637.9	643.2	645.0	644.3
5°	632.4	637.2	643.8	645.0	646.2	645.6	644.3	645.6	651.5	652.7	653.3
7.5°	627.7	636.6	645.0	646.7	648.5	646.7	646.2	647.4	653.3	654.5	654.5
10°	621.8	634.2	643.8	645.0	646.7	645.0	645.0	647.4	653.3	654.5	655.1
12.5°	613.4	630.7	639.6	640.8	643.2	642.6	642.0	644.3	650.4	651.5	651.5
15°	603.8	624.1	632.4	633.7	637.9	636.6	636.6	639.0	645.6	647.4	646.7
17.5°	590.8	615.8	625.3	627.1	630.1	629.5	630.1	632.4	638.4	639.6	640.2
20°	575.9	604.5	615.8	617.6	620.5	620.5	620.5	623.6	629.5	631.9	631.9
22.5°	555.6	592.6	604.5	605.7	609.3	609.3	610.4	614.6	619.9	620.5	620.5
25°	531.8	579.4	589.5	593.2	596.7	598.5	600.3	602.7	604.5	603.8	604.5
27.5°	506.8	562.8	575.9	578.3	583.1	584.8	587.2	587.8	588.4	590.2	589.0
30°	478.8	539.5	559.2	561.6	569.3	570.5	568.1	569.3	572.3	573.5	574.7
32.5°	447.3	505.0	541.9	547.3	554.5	550.9	550.3	552.1	556.9	556.9	558.0
35°	404.4	478.2	525.9	530.7	536.0	531.8	534.2	534.8	537.8	539.5	538.9
37.5°	357.3	455.0	509.2	512.7	516.9	511.6	515.1	516.9	519.3	518.1	518.1
40°	315.6	418.7	489.6	492.0	495.5	491.3	494.9	496.1	497.3	496.1	495.5
42.5°	284.7	378.7	468.7	471.7	469.3	472.2	473.5	475.9	474.0	471.7	471.7
45°	260.8	368.1	446.0	449.6	446.0	450.8	452.6	452.6	447.3	446.0	445.4
47.5°	253.1	346.6	423.4	423.4	421.6	427.6	430.6	426.4	421.1	419.2	419.2
50°	252.5	322.8	392.5	390.1	398.4	405.5	402.6	398.4	394.3	387.7	387.7
52.5°	229.3	293.6	352.5	361.5	374.6	378.7	374.0	369.9	362.7	359.7	357.3
55°	212.6	263.2	316.2	334.1	347.8	353.2	344.2	340.0	329.4	327.6	326.3
57.5°	209.0	219.2	282.9	305.5	322.2	321.6	316.2	308.5	299.5	297.7	297.2
60°	191.8	158.4	247.1	273.9	291.2	289.4	284.7	277.5	269.2	268.0	266.8
62.5°	173.9	114.9	206.6	237.0	261.4	260.8	256.7	246.0	240.0	237.0	234.6
65°	147.7	96.4	147.1	197.1	232.3	233.5	224.5	216.8	210.2	206.6	206.0
67.5°	112.6	78.6	99.5	164.4	204.2	203.1	191.8	188.2	179.8	178.0	174.5
70°	83.4	52.4	69.1	133.4	176.9	173.9	165.0	160.8	153.1	148.9	146.5
72.5°	69.1	42.3	50.6	103.6	148.9	145.3	137.6	132.8	126.3	122.7	120.3
75°	55.9	44.7	38.7	76.8	120.9	118.5	111.4	106.6	101.2	96.4	97.1
77.5°	41.1	41.6	31.0	56.6	95.9	92.4	88.2	82.2	79.8	75.0	75.0
80°	31.0	32.8	23.3	38.7	69.1	69.1	65.5	61.4	57.2	54.8	54.8
82.5°	20.9	20.9	17.2	24.4	47.1	45.3	42.9	41.6	39.3	38.1	38.1
85°	9.5	11.9	10.7	14.9	25.6	26.8	26.8	25.6	25.0	23.8	24.4
87.5°	3.0	5.3	6.6	8.3	13.1	13.7	14.3	14.3	14.3	14.9	14.9
90°	5.5	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.1	21.0	21.0
92.5°	22.1	59.8	97.5	106.9	150.2	208.1	237.0	207.7	149.2	105.2	101.1
95°	53.2	122.1	191.0	208.2	369.8	585.2	692.9	618.3	469.1	357.2	344.5
97.5°	91.9	152.7	213.6	228.7	498.1	857.3	1036.8	989.7	895.4	824.7	800.5
100°	121.8	177.0	232.1	245.9	544.8	943.3	1142.6	1146.1	1153.0	1158.1	1129.4
102.5°	147.3	198.8	250.2	263.1	566.3	970.4	1172.5	1232.5	1352.7	1442.8	1418.2
105°	190.6	234.2	277.7	288.6	582.1	973.4	1169.1	1303.8	1573.1	1775.1	1761.9
107.5°	234.9	275.5	316.1	326.3	585.1	930.2	1102.7	1290.5	1666.2	1947.9	1951.1
110°	264.7	301.4	338.2	347.3	580.7	891.7	1047.3	1257.3	1677.3	1992.2	2006.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	294.1	329.1	364.1	372.8	580.8	858.3	997.0	1211.9	1641.6	1964.0	1985.1
115°	338.4	370.7	402.9	411.0	586.2	819.8	936.6	1143.6	1557.6	1868.2	1897.6
117.5°	382.2	411.5	440.8	448.1	597.1	795.7	895.0	1081.9	1455.5	1735.8	1768.4
120°	407.6	435.2	462.7	469.7	605.9	787.6	878.4	1049.1	1390.5	1646.6	1678.2
122.5°	432.5	460.3	488.2	495.1	618.7	783.4	865.7	1019.4	1326.8	1557.5	1588.6
125°	470.8	496.1	521.5	527.8	635.8	779.8	851.9	982.4	1243.6	1439.4	1468.2
127.5°	501.8	527.4	553.0	559.4	652.9	777.8	840.2	952.4	1176.6	1344.8	1369.0
130°	518.4	545.9	573.5	580.4	665.6	779.0	835.8	935.6	1135.2	1284.9	1307.3
132.5°	535.6	563.2	590.7	597.6	675.7	779.8	831.9	921.2	1100.0	1234.0	1254.0
135°	561.0	586.2	611.2	617.5	686.8	779.0	825.2	900.1	1049.7	1161.9	1179.3
137.5°	587.1	611.9	636.8	643.0	703.4	783.9	824.2	887.4	1013.9	1108.8	1123.0
140°	608.7	631.6	654.5	660.2	713.6	784.7	820.2	874.9	984.2	1066.1	1079.4
142.5°	625.3	646.5	667.6	672.9	722.0	787.5	820.2	868.3	964.3	1036.3	1047.7
145°	650.8	669.3	687.7	692.3	733.1	787.6	814.7	854.0	932.5	991.4	1000.0
147.5°	676.2	694.2	712.2	716.7	749.4	793.0	814.7	845.6	907.4	953.7	960.8
150°	692.9	709.2	725.3	729.4	757.8	795.7	814.7	840.8	893.0	932.1	937.9
152.5°	710.0	722.4	734.6	737.8	763.4	797.6	814.7	837.0	881.6	915.0	919.3
155°	735.5	744.7	753.7	756.0	775.6	801.7	814.7	832.5	867.9	894.5	897.4
157.5°	754.4	763.2	772.0	774.2	787.7	805.8	814.7	828.5	856.0	876.7	878.8
160°	767.1	774.0	780.9	782.6	793.3	807.6	814.7	826.6	850.2	867.8	869.0
162.5°	779.8	785.0	790.1	791.5	799.2	809.6	814.7	824.7	844.7	859.6	860.6
165°	793.7	798.3	803.0	804.2	807.7	812.4	814.7	821.8	836.1	846.8	848.0
167.5°	806.4	808.6	810.8	811.4	814.3	818.3	820.2	825.0	834.3	841.3	841.8
170°	814.7	817.0	819.2	819.7	819.9	820.2	820.2	825.0	834.3	841.3	841.3
172.5°	819.2	819.6	820.2	820.2	820.2	820.2	820.2	824.0	831.3	836.9	836.4
175°	825.2	825.2	825.2	825.2	823.5	821.3	820.2	822.6	827.3	830.8	830.8
177.5°	825.2	825.2	825.2	825.2	824.0	822.3	821.4	823.3	826.9	829.7	829.1
180°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	645.6	643.8	645.6	644.3	645.0	643.2	637.9	636.1	637.9	639.6	639.6
5°	653.3	652.1	653.3	653.3	652.7	651.5	645.6	644.3	645.6	646.2	645.0
7.5°	655.7	653.9	655.7	654.5	654.5	653.3	647.4	646.2	646.7	648.5	646.7
10°	655.7	653.9	655.7	655.1	654.5	653.3	647.4	645.0	645.0	646.7	645.0
12.5°	652.7	651.5	652.7	651.5	651.5	650.4	644.3	642.0	642.6	643.2	640.8
15°	648.0	646.2	648.0	646.7	647.4	645.6	639.0	636.6	636.6	637.9	633.7
17.5°	640.8	638.4	640.8	640.2	639.6	638.4	632.4	630.1	629.5	630.1	627.1
20°	632.4	630.7	632.4	631.9	631.9	629.5	623.6	620.5	620.5	620.5	617.6
22.5°	619.4	617.6	619.4	620.5	620.5	619.9	614.6	610.4	609.3	609.3	605.7
25°	604.5	602.7	604.5	604.5	603.8	604.5	602.7	600.3	598.5	596.7	593.2
27.5°	590.2	589.0	590.2	589.0	590.2	588.4	587.8	587.2	584.8	583.1	578.3
30°	575.9	574.7	575.9	574.7	573.5	572.3	569.3	568.1	570.5	569.3	561.6
32.5°	558.0	556.9	558.0	558.0	556.9	556.9	552.1	550.3	550.9	554.5	547.3
35°	539.5	537.8	539.5	538.9	539.5	537.8	534.8	534.2	531.8	536.0	530.7
37.5°	518.1	516.4	518.1	518.1	518.1	519.3	516.9	515.1	511.6	516.9	512.7
40°	496.1	493.7	496.1	495.5	496.1	497.3	496.1	494.9	491.3	495.5	492.0
42.5°	471.1	470.5	471.1	471.7	471.7	474.0	475.9	473.5	472.2	469.3	471.7
45°	444.3	443.1	444.3	445.4	446.0	447.3	452.6	452.6	450.8	446.0	449.6
47.5°	415.7	412.7	415.7	419.2	419.2	421.1	426.4	430.6	427.6	421.6	423.4
50°	385.3	385.9	385.3	387.7	387.7	394.3	398.4	402.6	405.5	398.4	390.1
52.5°	355.6	354.9	355.6	357.3	359.7	362.7	369.9	374.0	378.7	374.6	361.5
55°	325.7	327.0	325.7	326.3	327.6	329.4	340.0	344.2	353.2	347.8	334.1
57.5°	296.0	294.2	296.0	297.2	297.7	299.5	308.5	316.2	321.6	322.2	305.5
60°	261.4	259.0	261.4	266.8	268.0	269.2	277.5	284.7	289.4	291.2	273.9
62.5°	231.1	226.9	231.1	234.6	237.0	240.0	246.0	256.7	260.8	261.4	237.0
65°	198.9	197.1	198.9	206.0	206.6	210.2	216.8	224.5	233.5	232.3	197.1
67.5°	169.7	169.7	169.7	174.5	178.0	179.8	188.2	191.8	203.1	204.2	164.4
70°	143.0	142.3	143.0	146.5	148.9	153.1	160.8	165.0	173.9	176.9	133.4
72.5°	117.3	116.7	117.3	120.3	122.7	126.3	132.8	137.6	145.3	148.9	103.6
75°	94.7	93.5	94.7	97.1	96.4	101.2	106.6	111.4	118.5	120.9	76.8
77.5°	72.6	72.6	72.6	75.0	75.0	79.8	82.2	88.2	92.4	95.9	56.6
80°	54.2	53.6	54.2	54.8	54.8	57.2	61.4	65.5	69.1	69.1	38.7
82.5°	38.1	36.9	38.1	38.1	38.1	39.3	41.6	42.9	45.3	47.1	24.4
85°	23.8	23.8	23.8	24.4	23.8	25.0	25.6	26.8	26.8	25.6	14.9
87.5°	15.5	14.9	15.5	14.9	14.9	14.3	14.3	14.3	13.7	13.1	8.3
90°	21.0	21.0	21.0	21.0	21.0	28.1	37.4	42.1	36.2	24.4	15.5
92.5°	84.3	67.6	84.3	101.1	105.2	149.2	207.7	237.0	208.1	150.2	106.9
95°	293.8	243.1	293.8	344.5	357.2	469.1	618.3	692.9	585.2	369.8	208.2
97.5°	704.1	607.6	704.1	800.5	824.7	895.4	989.7	1036.8	857.3	498.1	228.7
100°	1014.5	899.5	1014.5	1129.4	1158.1	1153.0	1146.1	1142.6	943.3	544.8	245.9
102.5°	1319.7	1221.3	1319.7	1418.2	1442.8	1352.7	1232.5	1172.5	970.4	566.3	263.1
105°	1709.0	1656.0	1709.0	1761.9	1775.1	1573.1	1303.8	1169.1	973.4	582.1	288.6
107.5°	1963.9	1976.7	1963.9	1951.1	1947.9	1666.2	1290.5	1102.7	930.2	585.1	326.3
110°	2061.1	2116.3	2061.1	2006.0	1992.2	1677.3	1257.3	1047.3	891.7	580.7	347.3





TEST NUMBER: P935874

CATALOG NUMBER: SQ4-FA-150U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2069.8	2154.5	2069.8	1985.1	1964.0	1641.6	1211.9	997.0	858.3	580.8	372.8
115°	2015.0	2132.4	2015.0	1897.6	1868.2	1557.6	1143.6	936.6	819.8	586.2	411.0
117.5°	1898.5	2028.7	1898.5	1768.4	1735.8	1455.5	1081.9	895.0	795.7	597.1	448.1
120°	1804.8	1931.3	1804.8	1678.2	1646.6	1390.5	1049.1	878.4	787.6	605.9	469.7
122.5°	1713.5	1838.2	1713.5	1588.6	1557.5	1326.8	1019.4	865.7	783.4	618.7	495.1
125°	1583.1	1698.1	1583.1	1468.2	1439.4	1243.6	982.4	851.9	779.8	635.8	527.8
127.5°	1466.0	1563.0	1466.0	1369.0	1344.8	1176.6	952.4	840.2	777.8	652.9	559.4
130°	1396.9	1486.5	1396.9	1307.3	1284.9	1135.2	935.6	835.8	779.0	665.6	580.4
132.5°	1334.2	1414.5	1334.2	1254.0	1234.0	1100.0	921.2	831.9	779.8	675.7	597.6
135°	1248.4	1317.6	1248.4	1179.3	1161.9	1049.7	900.1	825.2	779.0	686.8	617.5
137.5°	1179.6	1236.2	1179.6	1123.0	1108.8	1013.9	887.4	824.2	783.9	703.4	643.0
140°	1132.3	1185.2	1132.3	1079.4	1066.1	984.2	874.9	820.2	784.7	713.6	660.2
142.5°	1093.2	1138.7	1093.2	1047.7	1036.3	964.3	868.3	820.2	787.5	722.0	672.9
145°	1034.5	1069.0	1034.5	1000.0	991.4	932.5	854.0	814.7	787.6	733.1	692.3
147.5°	989.4	1018.0	989.4	960.8	953.7	907.4	845.6	814.7	793.0	749.4	716.7
150°	961.1	984.2	961.1	937.9	932.1	893.0	840.8	814.7	795.7	757.8	729.4
152.5°	936.8	954.2	936.8	919.3	915.0	881.6	837.0	814.7	797.6	763.4	737.8
155°	909.0	920.5	909.0	897.4	894.5	867.9	832.5	814.7	801.7	775.6	756.0
157.5°	886.8	895.0	886.8	878.8	876.7	856.0	828.5	814.7	805.8	787.7	774.2
160°	873.7	878.4	873.7	869.0	867.8	850.2	826.6	814.7	807.6	793.3	782.6
162.5°	865.1	869.5	865.1	860.6	859.6	844.7	824.7	814.7	809.6	799.2	791.5
165°	852.7	857.4	852.7	848.0	846.8	836.1	821.8	814.7	812.4	807.7	804.2
167.5°	843.8	845.7	843.8	841.8	841.3	834.3	825.0	820.2	818.3	814.3	811.4
170°	841.3	841.3	841.3	841.3	841.3	834.3	825.0	820.2	820.2	819.9	819.7
172.5°	834.7	833.0	834.7	836.4	836.9	831.3	824.0	820.2	820.2	820.2	820.2
175°	830.8	830.8	830.8	830.8	830.8	827.3	822.6	820.2	821.3	823.5	825.2
177.5°	827.2	825.2	827.2	829.1	829.7	826.9	823.3	821.4	822.3	824.0	825.2
180°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2



TEST NUMBER: P935874

CATALOG NUMBER: SQ4-FA-150U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	638.4	634.8	634.8	628.9	626.5	624.7	621.8	612.8	610.4	608.0	611.7
5°	643.8	637.2	632.4	621.8	612.8	609.3	597.9	576.5	562.2	551.4	545.5
7.5°	645.0	636.6	627.7	611.0	589.5	580.0	545.5	506.2	495.5	486.0	480.0
10°	643.8	634.2	621.8	596.7	546.1	529.4	494.9	469.3	462.7	461.0	462.7
12.5°	639.6	630.7	613.4	571.7	500.8	489.6	469.3	454.4	453.2	456.2	472.2
15°	632.4	624.1	603.8	538.4	475.9	467.5	453.2	447.8	454.4	475.3	523.5
17.5°	625.3	615.8	590.8	505.6	456.8	450.8	440.7	451.5	488.3	516.4	532.4
20°	615.8	604.5	575.9	481.8	443.1	437.7	433.0	481.2	509.2	519.3	528.3
22.5°	604.5	592.6	555.6	465.1	428.8	424.6	427.6	497.9	509.2	516.4	524.1
25°	589.5	579.4	531.8	452.0	417.4	412.7	424.0	496.1	502.6	504.4	519.9
27.5°	575.9	562.8	506.8	440.1	403.8	402.0	427.0	488.3	493.1	494.9	511.6
30°	559.2	539.5	478.8	427.6	389.5	388.9	427.6	478.8	477.7	482.4	499.1
32.5°	541.9	505.0	447.3	412.1	375.8	375.2	423.4	464.5	463.4	469.8	482.4
35°	525.9	478.2	404.4	394.3	358.5	359.1	413.3	447.8	448.4	454.4	462.1
37.5°	509.2	455.0	357.3	374.6	341.9	341.9	399.6	432.4	431.2	433.0	443.6
40°	489.6	418.7	315.6	349.0	326.3	324.6	382.9	415.7	411.5	411.0	425.8
42.5°	468.7	378.7	284.7	315.1	308.5	306.1	362.7	395.4	387.7	389.5	408.6
45°	446.0	368.1	260.8	266.2	290.0	288.2	340.6	372.2	366.8	371.6	391.3
47.5°	423.4	346.6	253.1	220.9	270.4	269.8	316.2	349.6	346.6	351.4	372.2
50°	392.5	322.8	252.5	189.4	248.4	250.7	287.1	327.6	327.6	331.8	353.8
52.5°	352.5	293.6	229.3	171.5	222.7	229.9	261.4	308.5	309.6	313.8	333.5
55°	316.2	263.2	212.6	157.8	192.3	207.9	236.4	288.9	291.2	295.3	313.3
57.5°	282.9	219.2	209.0	141.7	164.4	179.3	214.4	269.8	270.9	274.6	291.8
60°	247.1	158.4	191.8	124.5	139.9	151.2	194.1	247.1	251.3	253.7	268.6
62.5°	206.6	114.9	173.9	112.6	128.0	130.4	177.5	225.7	231.1	232.8	241.8
65°	147.1	96.4	147.7	102.5	115.5	116.2	159.6	203.7	208.4	211.4	218.0
67.5°	99.5	78.6	112.6	92.9	106.0	106.6	142.3	178.0	184.6	187.0	191.2
70°	69.1	52.4	83.4	82.8	95.3	96.4	123.9	154.9	160.8	162.6	165.0
72.5°	50.6	42.3	69.1	74.4	84.0	85.2	104.8	128.7	134.6	136.4	137.6
75°	38.7	44.7	55.9	64.9	71.5	72.0	85.8	104.8	109.0	110.2	110.7
77.5°	31.0	41.6	41.1	52.4	58.3	57.2	67.3	81.0	84.5	84.5	84.5
80°	23.3	32.8	31.0	37.6	42.9	41.6	48.2	57.8	59.0	60.1	59.6
82.5°	17.2	20.9	20.9	23.8	28.6	27.4	32.1	37.6	37.6	37.6	38.7
85°	10.7	11.9	9.5	12.5	16.1	15.5	17.8	20.2	20.9	20.9	19.6
87.5°	6.6	5.3	3.0	4.8	7.1	7.1	8.3	9.0	8.3	8.3	8.3
90°	14.4	9.9	5.5	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.1
92.5°	97.5	59.8	22.1	59.8	97.5	106.9	150.2	208.1	237.0	207.7	149.2
95°	191.0	122.1	53.2	122.1	191.0	208.2	369.8	585.2	692.9	618.3	469.1
97.5°	213.6	152.7	91.9	152.7	213.6	228.7	498.1	857.3	1036.8	989.7	895.4
100°	232.1	177.0	121.8	177.0	232.1	245.9	544.8	943.3	1142.6	1146.1	1153.0
102.5°	250.2	198.8	147.3	198.8	250.2	263.1	566.3	970.4	1172.5	1232.5	1352.7
105°	277.7	234.2	190.6	234.2	277.7	288.6	582.1	973.4	1169.1	1303.8	1573.1
107.5°	316.1	275.5	234.9	275.5	316.1	326.3	585.1	930.2	1102.7	1290.5	1666.2
110°	338.2	301.4	264.7	301.4	338.2	347.3	580.7	891.7	1047.3	1257.3	1677.3



TEST NUMBER: P935874

CATALOG NUMBER: SQ4-FA-150U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	364.1	329.1	294.1	329.1	364.1	372.8	580.8	858.3	997.0	1211.9	1641.6
115°	402.9	370.7	338.4	370.7	402.9	411.0	586.2	819.8	936.6	1143.6	1557.6
117.5°	440.8	411.5	382.2	411.5	440.8	448.1	597.1	795.7	895.0	1081.9	1455.5
120°	462.7	435.2	407.6	435.2	462.7	469.7	605.9	787.6	878.4	1049.1	1390.5
122.5°	488.2	460.3	432.5	460.3	488.2	495.1	618.7	783.4	865.7	1019.4	1326.8
125°	521.5	496.1	470.8	496.1	521.5	527.8	635.8	779.8	851.9	982.4	1243.6
127.5°	553.0	527.4	501.8	527.4	553.0	559.4	652.9	777.8	840.2	952.4	1176.6
130°	573.5	545.9	518.4	545.9	573.5	580.4	665.6	779.0	835.8	935.6	1135.2
132.5°	590.7	563.2	535.6	563.2	590.7	597.6	675.7	779.8	831.9	921.2	1100.0
135°	611.2	586.2	561.0	586.2	611.2	617.5	686.8	779.0	825.2	900.1	1049.7
137.5°	636.8	611.9	587.1	611.9	636.8	643.0	703.4	783.9	824.2	887.4	1013.9
140°	654.5	631.6	608.7	631.6	654.5	660.2	713.6	784.7	820.2	874.9	984.2
142.5°	667.6	646.5	625.3	646.5	667.6	672.9	722.0	787.5	820.2	868.3	964.3
145°	687.7	669.3	650.8	669.3	687.7	692.3	733.1	787.6	814.7	854.0	932.5
147.5°	712.2	694.2	676.2	694.2	712.2	716.7	749.4	793.0	814.7	845.6	907.4
150°	725.3	709.2	692.9	709.2	725.3	729.4	757.8	795.7	814.7	840.8	893.0
152.5°	734.6	722.4	710.0	722.4	734.6	737.8	763.4	797.6	814.7	837.0	881.6
155°	753.7	744.7	735.5	744.7	753.7	756.0	775.6	801.7	814.7	832.5	867.9
157.5°	772.0	763.2	754.4	763.2	772.0	774.2	787.7	805.8	814.7	828.5	856.0
160°	780.9	774.0	767.1	774.0	780.9	782.6	793.3	807.6	814.7	826.6	850.2
162.5°	790.1	785.0	779.8	785.0	790.1	791.5	799.2	809.6	814.7	824.7	844.7
165°	803.0	798.3	793.7	798.3	803.0	804.2	807.7	812.4	814.7	821.8	836.1
167.5°	810.8	808.6	806.4	808.6	810.8	811.4	814.3	818.3	820.2	825.0	834.3
170°	819.2	817.0	814.7	817.0	819.2	819.7	819.9	820.2	820.2	825.0	834.3
172.5°	820.2	819.6	819.2	819.6	820.2	820.2	820.2	820.2	820.2	824.0	831.3
175°	825.2	825.2	825.2	825.2	825.2	825.2	823.5	821.3	820.2	822.6	827.3
177.5°	825.2	825.2	825.2	825.2	825.2	825.2	824.0	822.3	821.4	823.3	826.9
180°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2



TEST NUMBER: P935874  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	607.5	605.7	608.0	601.5	608.0	605.7	607.5	611.7	608.0	610.4	612.8
5°	533.0	530.0	520.5	512.7	520.5	530.0	533.0	545.5	551.4	562.2	576.5
7.5°	476.4	474.0	471.7	466.9	471.7	474.0	476.4	480.0	486.0	495.5	506.2
10°	463.9	464.5	468.1	467.5	468.1	464.5	463.9	462.7	461.0	462.7	469.3
12.5°	496.1	501.5	521.1	519.9	521.1	501.5	496.1	472.2	456.2	453.2	454.4
15°	533.0	534.8	538.9	539.5	538.9	534.8	533.0	523.5	475.3	454.4	447.8
17.5°	536.6	537.2	540.2	540.2	540.2	537.2	536.6	532.4	516.4	488.3	451.5
20°	533.6	534.8	540.8	541.9	540.8	534.8	533.6	528.3	519.3	509.2	481.2
22.5°	532.4	534.8	539.5	538.9	539.5	534.8	532.4	524.1	516.4	509.2	497.9
25°	526.5	526.5	527.0	527.6	527.0	526.5	526.5	519.9	504.4	502.6	496.1
27.5°	514.0	515.1	518.7	518.1	518.7	515.1	514.0	511.6	494.9	493.1	488.3
30°	502.6	501.5	498.4	496.1	498.4	501.5	502.6	499.1	482.4	477.7	478.8
32.5°	483.6	480.6	477.7	475.9	477.7	480.6	483.6	482.4	469.8	463.4	464.5
35°	461.0	461.6	461.0	459.2	461.0	461.6	461.0	462.1	454.4	448.4	447.8
37.5°	444.9	446.0	445.4	443.1	445.4	446.0	444.9	443.6	433.0	431.2	432.4
40°	428.2	428.8	428.2	426.4	428.2	428.8	428.2	425.8	411.0	411.5	415.7
42.5°	412.1	411.5	409.7	408.6	409.7	411.5	412.1	408.6	389.5	387.7	395.4
45°	393.7	394.3	390.6	388.9	390.6	394.3	393.7	391.3	371.6	366.8	372.2
47.5°	375.2	375.2	372.2	370.4	372.2	375.2	375.2	372.2	351.4	346.6	349.6
50°	355.6	354.9	350.8	350.1	350.8	354.9	355.6	353.8	331.8	327.6	327.6
52.5°	332.9	332.9	333.5	334.7	333.5	332.9	332.9	333.5	313.8	309.6	308.5
55°	313.3	313.8	318.0	319.2	318.0	313.8	313.3	313.3	295.3	291.2	288.9
57.5°	293.0	293.0	296.0	296.0	296.0	293.0	293.0	291.8	274.6	270.9	269.8
60°	269.8	270.9	273.3	272.8	273.3	270.9	269.8	268.6	253.7	251.3	247.1
62.5°	245.4	246.6	247.1	246.0	247.1	246.6	245.4	241.8	232.8	231.1	225.7
65°	219.8	220.9	221.6	220.3	221.6	220.9	219.8	218.0	211.4	208.4	203.7
67.5°	193.6	193.0	192.3	194.7	192.3	193.0	193.6	191.2	187.0	184.6	178.0
70°	166.8	166.8	166.1	167.4	166.1	166.8	166.8	165.0	162.6	160.8	154.9
72.5°	138.2	137.6	139.9	138.2	139.9	137.6	138.2	137.6	136.4	134.6	128.7
75°	110.2	111.4	110.2	112.0	110.2	111.4	110.2	110.7	110.2	109.0	104.8
77.5°	84.0	85.2	84.0	84.0	84.0	85.2	84.0	84.5	84.5	84.5	81.0
80°	59.6	59.0	59.0	58.3	59.0	59.0	59.6	59.6	60.1	59.0	57.8
82.5°	38.1	37.6	37.6	38.7	37.6	37.6	38.1	38.7	37.6	37.6	37.6
85°	20.9	21.4	20.2	20.2	20.2	21.4	20.9	19.6	20.9	20.9	20.2
87.5°	7.7	7.1	7.1	7.1	7.1	7.1	7.7	8.3	8.3	8.3	9.0
90°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	28.1	37.4	42.1	36.2
92.5°	105.2	101.1	84.3	67.6	84.3	101.1	105.2	149.2	207.7	237.0	208.1
95°	357.2	344.5	293.8	243.1	293.8	344.5	357.2	469.1	618.3	692.9	585.2
97.5°	824.7	800.5	704.1	607.6	704.1	800.5	824.7	895.4	989.7	1036.8	857.3
100°	1158.1	1129.4	1014.5	899.5	1014.5	1129.4	1158.1	1153.0	1146.1	1142.6	943.3
102.5°	1442.8	1418.2	1319.7	1221.3	1319.7	1418.2	1442.8	1352.7	1232.5	1172.5	970.4
105°	1775.1	1761.9	1709.0	1656.0	1709.0	1761.9	1775.1	1573.1	1303.8	1169.1	973.4
107.5°	1947.9	1951.1	1963.9	1976.7	1963.9	1951.1	1947.9	1666.2	1290.5	1102.7	930.2
110°	1992.2	2006.0	2061.1	2116.3	2061.1	2006.0	1992.2	1677.3	1257.3	1047.3	891.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1964.0	1985.1	2069.8	2154.5	2069.8	1985.1	1964.0	1641.6	1211.9	997.0	858.3
115°	1868.2	1897.6	2015.0	2132.4	2015.0	1897.6	1868.2	1557.6	1143.6	936.6	819.8
117.5°	1735.8	1768.4	1898.5	2028.7	1898.5	1768.4	1735.8	1455.5	1081.9	895.0	795.7
120°	1646.6	1678.2	1804.8	1931.3	1804.8	1678.2	1646.6	1390.5	1049.1	878.4	787.6
122.5°	1557.5	1588.6	1713.5	1838.2	1713.5	1588.6	1557.5	1326.8	1019.4	865.7	783.4
125°	1439.4	1468.2	1583.1	1698.1	1583.1	1468.2	1439.4	1243.6	982.4	851.9	779.8
127.5°	1344.8	1369.0	1466.0	1563.0	1466.0	1369.0	1344.8	1176.6	952.4	840.2	777.8
130°	1284.9	1307.3	1396.9	1486.5	1396.9	1307.3	1284.9	1135.2	935.6	835.8	779.0
132.5°	1234.0	1254.0	1334.2	1414.5	1334.2	1254.0	1234.0	1100.0	921.2	831.9	779.8
135°	1161.9	1179.3	1248.4	1317.6	1248.4	1179.3	1161.9	1049.7	900.1	825.2	779.0
137.5°	1108.8	1123.0	1179.6	1236.2	1179.6	1123.0	1108.8	1013.9	887.4	824.2	783.9
140°	1066.1	1079.4	1132.3	1185.2	1132.3	1079.4	1066.1	984.2	874.9	820.2	784.7
142.5°	1036.3	1047.7	1093.2	1138.7	1093.2	1047.7	1036.3	964.3	868.3	820.2	787.5
145°	991.4	1000.0	1034.5	1069.0	1034.5	1000.0	991.4	932.5	854.0	814.7	787.6
147.5°	953.7	960.8	989.4	1018.0	989.4	960.8	953.7	907.4	845.6	814.7	793.0
150°	932.1	937.9	961.1	984.2	961.1	937.9	932.1	893.0	840.8	814.7	795.7
152.5°	915.0	919.3	936.8	954.2	936.8	919.3	915.0	881.6	837.0	814.7	797.6
155°	894.5	897.4	909.0	920.5	909.0	897.4	894.5	867.9	832.5	814.7	801.7
157.5°	876.7	878.8	886.8	895.0	886.8	878.8	876.7	856.0	828.5	814.7	805.8
160°	867.8	869.0	873.7	878.4	873.7	869.0	867.8	850.2	826.6	814.7	807.6
162.5°	859.6	860.6	865.1	869.5	865.1	860.6	859.6	844.7	824.7	814.7	809.6
165°	846.8	848.0	852.7	857.4	852.7	848.0	846.8	836.1	821.8	814.7	812.4
167.5°	841.3	841.8	843.8	845.7	843.8	841.8	841.3	834.3	825.0	820.2	818.3
170°	841.3	841.3	841.3	841.3	841.3	841.3	841.3	834.3	825.0	820.2	820.2
172.5°	836.9	836.4	834.7	833.0	834.7	836.4	836.9	831.3	824.0	820.2	820.2
175°	830.8	830.8	830.8	830.8	830.8	830.8	830.8	827.3	822.6	820.2	821.3
177.5°	829.7	829.1	827.2	825.2	827.2	829.1	829.7	826.9	823.3	821.4	822.3
180°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2



TEST NUMBER: P935874

CATALOG NUMBER: SQ4-FA-150U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	629.5	629.5	629.5	629.5	629.5
2.5°	621.8	624.7	626.5	628.9	634.8
5°	597.9	609.3	612.8	621.8	632.4
7.5°	545.5	580.0	589.5	611.0	627.7
10°	494.9	529.4	546.1	596.7	621.8
12.5°	469.3	489.6	500.8	571.7	613.4
15°	453.2	467.5	475.9	538.4	603.8
17.5°	440.7	450.8	456.8	505.6	590.8
20°	433.0	437.7	443.1	481.8	575.9
22.5°	427.6	424.6	428.8	465.1	555.6
25°	424.0	412.7	417.4	452.0	531.8
27.5°	427.0	402.0	403.8	440.1	506.8
30°	427.6	388.9	389.5	427.6	478.8
32.5°	423.4	375.2	375.8	412.1	447.3
35°	413.3	359.1	358.5	394.3	404.4
37.5°	399.6	341.9	341.9	374.6	357.3
40°	382.9	324.6	326.3	349.0	315.6
42.5°	362.7	306.1	308.5	315.1	284.7
45°	340.6	288.2	290.0	266.2	260.8
47.5°	316.2	269.8	270.4	220.9	253.1
50°	287.1	250.7	248.4	189.4	252.5
52.5°	261.4	229.9	222.7	171.5	229.3
55°	236.4	207.9	192.3	157.8	212.6
57.5°	214.4	179.3	164.4	141.7	209.0
60°	194.1	151.2	139.9	124.5	191.8
62.5°	177.5	130.4	128.0	112.6	173.9
65°	159.6	116.2	115.5	102.5	147.7
67.5°	142.3	106.6	106.0	92.9	112.6
70°	123.9	96.4	95.3	82.8	83.4
72.5°	104.8	85.2	84.0	74.4	69.1
75°	85.8	72.0	71.5	64.9	55.9
77.5°	67.3	57.2	58.3	52.4	41.1
80°	48.2	41.6	42.9	37.6	31.0
82.5°	32.1	27.4	28.6	23.8	20.9
85°	17.8	15.5	16.1	12.5	9.5
87.5°	8.3	7.1	7.1	4.8	3.0
90°	24.4	15.5	14.4	9.9	5.5
92.5°	150.2	106.9	97.5	59.8	22.1
95°	369.8	208.2	191.0	122.1	53.2
97.5°	498.1	228.7	213.6	152.7	91.9
100°	544.8	245.9	232.1	177.0	121.8
102.5°	566.3	263.1	250.2	198.8	147.3
105°	582.1	288.6	277.7	234.2	190.6
107.5°	585.1	326.3	316.1	275.5	234.9
110°	580.7	347.3	338.2	301.4	264.7



TEST NUMBER: P935874

CATALOG NUMBER: SQ4-FA-150U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	580.8	372.8	364.1	329.1	294.1
115°	586.2	411.0	402.9	370.7	338.4
117.5°	597.1	448.1	440.8	411.5	382.2
120°	605.9	469.7	462.7	435.2	407.6
122.5°	618.7	495.1	488.2	460.3	432.5
125°	635.8	527.8	521.5	496.1	470.8
127.5°	652.9	559.4	553.0	527.4	501.8
130°	665.6	580.4	573.5	545.9	518.4
132.5°	675.7	597.6	590.7	563.2	535.6
135°	686.8	617.5	611.2	586.2	561.0
137.5°	703.4	643.0	636.8	611.9	587.1
140°	713.6	660.2	654.5	631.6	608.7
142.5°	722.0	672.9	667.6	646.5	625.3
145°	733.1	692.3	687.7	669.3	650.8
147.5°	749.4	716.7	712.2	694.2	676.2
150°	757.8	729.4	725.3	709.2	692.9
152.5°	763.4	737.8	734.6	722.4	710.0
155°	775.6	756.0	753.7	744.7	735.5
157.5°	787.7	774.2	772.0	763.2	754.4
160°	793.3	782.6	780.9	774.0	767.1
162.5°	799.2	791.5	790.1	785.0	779.8
165°	807.7	804.2	803.0	798.3	793.7
167.5°	814.3	811.4	810.8	808.6	806.4
170°	819.9	819.7	819.2	817.0	814.7
172.5°	820.2	820.2	820.2	819.6	819.2
175°	823.5	825.2	825.2	825.2	825.2
177.5°	824.0	825.2	825.2	825.2	825.2
180°	825.2	825.2	825.2	825.2	825.2



TEST NUMBER: P935874  
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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	7.72	8.38	8.87	9.52	11.13	10.51	11.18	11.67	12.32	13.93
	3H	8.18	8.77	9.34	9.92	11.54	11.83	12.43	13.00	13.58	15.20
	4H	8.36	8.92	9.53	10.08	11.70	12.26	12.83	13.43	13.98	15.60
	6H	8.47	8.99	9.65	10.14	11.78	12.53	13.05	13.71	14.20	15.84
	8H	8.46	8.96	9.65	10.13	11.76	12.59	13.09	13.77	14.26	15.88
	12H	8.43	8.90	9.61	10.06	11.71	12.62	13.09	13.81	14.25	15.90
4H	2H	8.72	9.28	9.90	10.43	12.06	10.90	11.46	12.08	12.62	14.24
	3H	9.72	10.19	10.91	11.37	13.01	12.38	12.85	13.56	14.02	15.66
	4H	9.99	10.43	11.18	11.59	13.25	12.89	13.32	14.08	14.49	16.14
	6H	10.11	10.48	11.30	11.66	13.31	13.24	13.61	14.43	14.79	16.44
	8H	10.11	10.45	11.30	11.63	13.29	13.33	13.68	14.52	14.86	16.52
	12H	10.06	10.38	11.27	11.57	13.24	13.37	13.69	14.58	14.88	16.55
8H	4H	10.42	10.77	11.61	11.95	13.61	13.00	13.35	14.19	14.52	16.19
	6H	10.68	10.96	11.89	12.18	13.84	13.42	13.70	14.63	14.93	16.58
	8H	10.72	10.97	11.93	12.16	13.84	13.56	13.81	14.78	15.01	16.69
	12H	10.69	10.91	11.91	12.11	13.82	13.65	13.87	14.86	15.06	16.77
12H	4H	10.42	10.73	11.62	11.92	13.59	12.95	13.27	14.16	14.46	16.12
	6H	10.74	10.98	11.95	12.18	13.86	13.41	13.66	14.63	14.86	16.54
	8H	10.79	11.01	12.01	12.21	13.92	13.56	13.78	14.78	14.98	16.69