

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: P935414

Luminaire Tested: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

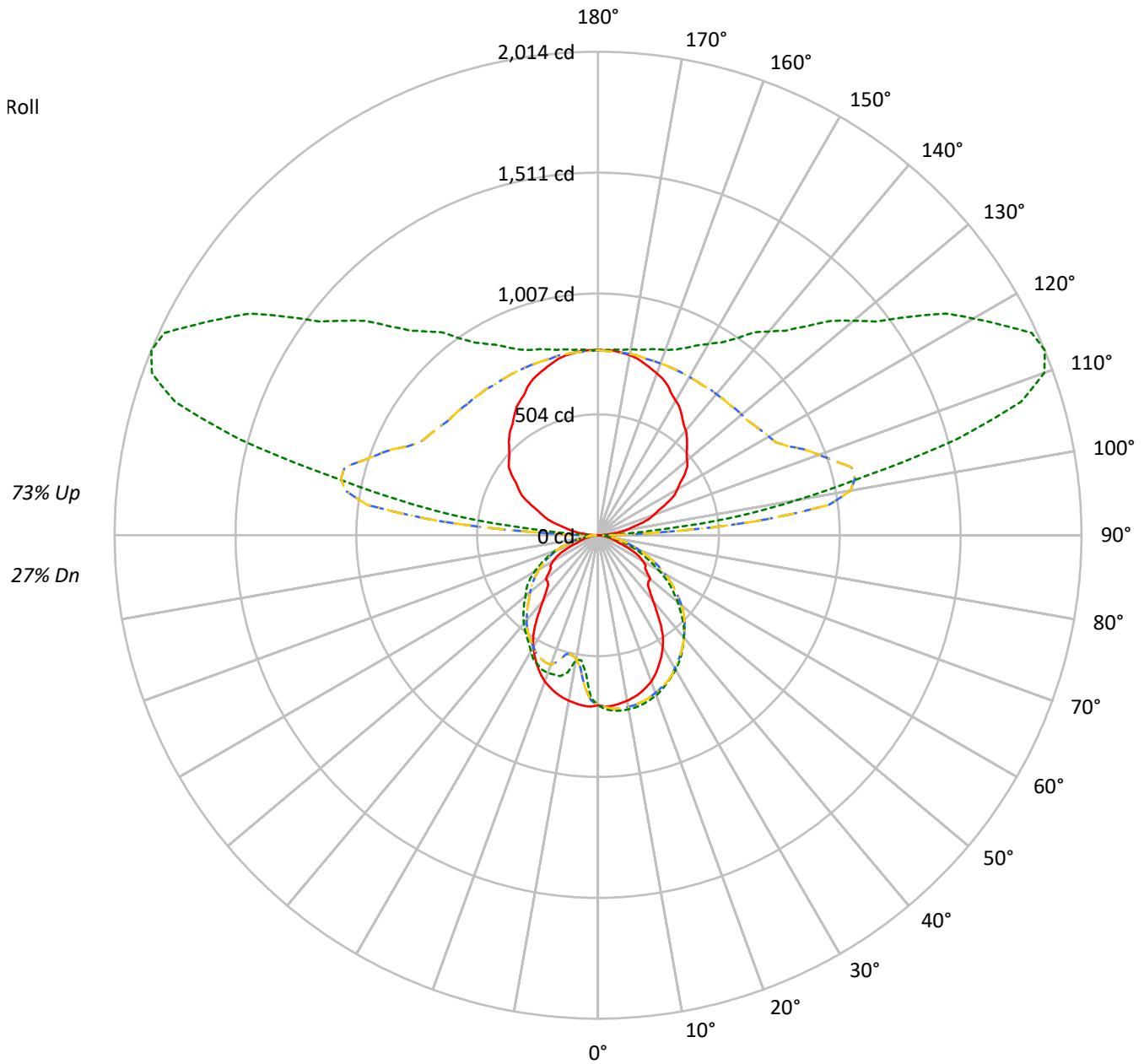
Test Method: LM-79-2019  
Report Number: P935414  
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6842.0 lumens  
Efficiency: N/A  
Efficacy: 143.7 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): 47.6  
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: P935414  
CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot



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





TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.0	0.9
10°-20°	181.7	2.7
20°-30°	280.8	4.1
30°-40°	335.3	4.9
40°-50°	337.2	4.9
50°-60°	293.4	4.3
60°-70°	208.1	3.0
70°-80°	110.1	1.6
80°-90°	30.4	0.4
90°-100°	376.0	5.5
100°-110°	988.7	14.4
110°-120°	1025.1	15.0
120°-130°	822.3	12.0
130°-140°	645.2	9.4
140°-150°	495.2	7.2
150°-160°	356.6	5.2
160°-170°	218.2	3.2
170°-180°	73.7	1.1
0°-30°	526.5	7.7
0°-40°	861.8	12.6
0°-60°	1492.5	21.8
0°-90°	1840.9	26.9
90°-120°	2389.8	34.9
90°-150°	4352.5	63.6
90°-180°	5001.0	73.1
0°-180°	6842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	712	734	712	577	712	68
15°	680	728	680	608	680	191
25°	599	679	599	594	599	275
35°	455	606	455	517	455	282
45°	294	499	294	438	294	235
55°	239	368	239	360	239	220
65°	166	222	166	248	166	159
75°	63	105	63	126	63	66
85°	11	27	11	23	11	14
90°	5	20	5	20	5	5
95°	50	227	50	227	50	55
105°	178	1548	178	1548	178	189
115°	316	1993	316	1993	316	312
125°	440	1587	440	1587	440	391
135°	524	1232	524	1232	524	406
145°	608	999	608	999	608	381
155°	688	860	688	860	688	316
165°	742	802	742	802	742	209
175°	772	777	772	777	772	73
180°	772	772	772	772	772	



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	714.9	714.9	718.9	720.3	720.3	718.3	716.3	718.3	724.3	726.3	725.6
5°	712.2	717.6	725.0	726.3	727.7	727.0	725.6	727.0	733.7	735.0	735.7
7.5°	706.9	716.9	726.3	728.3	730.3	728.3	727.7	729.0	735.7	737.0	737.0
10°	700.2	714.2	725.0	726.3	728.3	726.3	726.3	729.0	735.7	737.0	737.7
12.5°	690.8	710.2	720.3	721.6	724.3	723.6	723.0	725.6	732.4	733.7	733.7
15°	680.0	702.8	712.2	713.6	718.3	716.9	716.9	719.6	727.0	729.0	728.3
17.5°	665.3	693.5	704.2	706.2	709.6	708.9	709.6	712.2	718.9	720.3	721.0
20°	648.5	680.7	693.5	695.5	698.8	698.8	698.8	702.2	708.9	711.6	711.6
22.5°	625.7	667.3	680.7	682.1	686.1	686.1	687.4	692.1	698.1	698.8	698.8
25°	598.9	652.5	663.9	668.0	672.0	674.0	676.0	678.7	680.7	680.0	680.7
27.5°	570.7	633.8	648.5	651.2	656.6	658.6	661.3	661.9	662.6	664.6	663.3
30°	539.2	607.6	629.7	632.4	641.1	642.5	639.8	641.1	644.5	645.8	647.2
32.5°	503.7	568.7	610.3	616.3	624.4	620.4	619.7	621.7	627.1	627.1	628.4
35°	455.4	538.5	592.2	597.6	603.6	598.9	601.6	602.2	605.6	607.6	606.9
37.5°	402.4	512.4	573.4	577.4	582.1	576.1	580.1	582.1	584.8	583.5	583.5
40°	355.4	471.5	551.3	554.0	558.0	553.3	557.3	558.7	560.0	558.7	558.0
42.5°	320.6	426.5	527.8	531.2	528.5	531.8	533.2	535.9	533.8	531.2	531.2
45°	293.7	414.5	502.3	506.3	502.3	507.7	509.7	509.7	503.7	502.3	501.6
47.5°	285.0	390.3	476.8	476.8	474.8	481.5	484.9	480.2	474.2	472.1	472.1
50°	284.4	363.5	442.0	439.3	448.7	456.7	453.4	448.7	444.0	436.6	436.6
52.5°	258.2	330.6	397.0	407.1	421.8	426.5	421.2	416.5	408.4	405.1	402.4
55°	239.4	296.4	356.1	376.2	391.7	397.7	387.6	382.9	370.9	368.9	367.5
57.5°	235.4	246.8	318.6	344.0	362.8	362.2	356.1	347.4	337.3	335.3	334.7
60°	216.0	178.4	278.3	308.5	327.9	325.9	320.6	312.5	303.1	301.8	300.5
62.5°	195.8	129.4	232.7	266.9	294.4	293.7	289.1	277.0	270.3	266.9	264.2
65°	166.3	108.6	165.7	222.0	261.6	262.9	252.8	244.1	236.7	232.7	232.0
67.5°	126.8	88.5	112.0	185.1	230.0	228.7	216.0	211.9	202.5	200.5	196.5
70°	93.9	59.0	77.8	150.2	199.2	195.8	185.8	181.1	172.4	167.7	165.0
72.5°	77.8	47.6	57.0	116.7	167.7	163.6	154.9	149.6	142.2	138.2	135.5
75°	63.0	50.3	43.6	86.5	136.1	133.5	125.4	120.0	114.0	108.6	109.3
77.5°	46.3	46.9	34.9	63.7	108.0	104.0	99.3	92.6	89.9	84.5	84.5
80°	34.9	36.9	26.2	43.6	77.8	77.8	73.8	69.1	64.4	61.7	61.7
82.5°	23.5	23.5	19.4	27.5	53.0	51.0	48.3	46.9	44.3	42.9	42.9
85°	10.7	13.4	12.1	16.8	28.8	30.2	30.2	28.8	28.2	26.8	27.5
87.5°	3.4	6.0	7.4	9.4	14.8	15.4	16.1	16.1	16.1	16.8	16.8
90°	5.2	9.3	13.5	14.5	22.8	33.8	39.3	34.9	26.2	19.7	19.7
92.5°	20.7	55.9	91.1	99.9	140.5	194.6	221.6	194.2	139.5	98.4	94.5
95°	49.7	114.1	178.6	194.7	345.7	547.0	647.7	578.0	438.6	334.0	322.1
97.5°	85.9	142.7	199.6	213.8	465.6	801.3	969.2	925.1	837.0	770.9	748.4
100°	113.9	165.5	217.0	229.9	509.3	881.8	1068.1	1071.3	1077.8	1082.6	1055.7
102.5°	137.7	185.8	233.9	245.9	529.3	907.2	1096.1	1152.3	1264.6	1348.8	1325.8
105°	178.1	218.9	259.6	269.8	544.2	910.1	1093.0	1218.9	1470.6	1659.4	1647.0
107.5°	219.5	257.5	295.5	305.0	547.0	869.6	1030.9	1206.5	1557.6	1820.9	1823.9
110°	247.5	281.8	316.0	324.6	542.8	833.7	979.1	1175.4	1568.0	1862.4	1875.3



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	274.9	307.6	340.2	348.4	542.9	802.3	932.0	1132.9	1534.7	1836.0	1855.8
115°	316.3	346.5	376.7	384.2	548.0	766.3	875.5	1069.0	1456.1	1746.4	1773.8
117.5°	357.3	384.7	412.1	418.9	558.2	743.9	836.7	1011.3	1360.6	1622.6	1653.0
120°	381.1	406.9	432.7	439.1	566.5	736.3	821.2	980.8	1299.9	1539.3	1568.9
122.5°	404.4	430.4	456.4	462.9	578.4	732.3	809.3	953.0	1240.4	1455.9	1485.1
125°	440.1	463.8	487.5	493.4	594.4	729.0	796.3	918.4	1162.5	1345.6	1372.5
127.5°	469.1	493.0	516.9	522.9	610.4	727.1	785.4	890.2	1099.9	1257.1	1279.8
130°	484.6	510.4	536.2	542.6	622.2	728.3	781.3	874.6	1061.2	1201.2	1222.1
132.5°	500.7	526.5	552.3	558.7	631.7	729.0	777.7	861.2	1028.3	1153.6	1172.3
135°	524.5	548.0	571.4	577.3	642.0	728.3	771.5	841.5	981.4	1086.3	1102.5
137.5°	548.8	572.0	595.3	601.1	657.5	732.8	770.4	829.5	947.8	1036.5	1049.7
140°	569.0	590.4	611.8	617.2	667.1	733.6	766.8	817.9	920.1	996.7	1009.1
142.5°	584.5	604.3	624.1	629.1	675.0	736.2	766.8	811.7	901.4	968.7	979.3
145°	608.4	625.6	642.9	647.2	685.3	736.2	761.6	798.3	871.7	926.8	934.9
147.5°	632.2	649.0	665.8	670.0	700.5	741.2	761.6	790.5	848.3	891.6	898.3
150°	647.7	662.9	678.1	681.9	708.5	743.9	761.6	786.0	834.8	871.4	876.8
152.5°	663.8	675.3	686.8	689.7	713.7	745.6	761.6	782.4	824.1	855.3	859.4
155°	687.6	696.1	704.6	706.7	725.0	749.4	761.6	778.2	811.3	836.2	838.9
157.5°	705.2	713.5	721.7	723.8	736.4	753.2	761.6	774.5	800.3	819.6	821.5
160°	717.1	723.5	730.0	731.6	741.6	754.9	761.6	772.6	794.7	811.3	812.4
162.5°	729.0	733.8	738.7	739.9	747.1	756.8	761.6	770.9	789.6	803.6	804.6
165°	741.9	746.3	750.7	751.8	755.1	759.4	761.6	768.3	781.6	791.6	792.7
167.5°	753.9	755.9	758.0	758.5	761.3	765.0	766.8	771.2	779.9	786.5	787.0
170°	761.6	763.7	765.8	766.3	766.5	766.7	766.8	771.2	779.9	786.5	786.5
172.5°	765.8	766.2	766.7	766.8	766.8	766.8	766.8	770.2	777.1	782.3	781.9
175°	771.5	771.5	771.5	771.5	769.9	767.8	766.8	769.0	773.3	776.6	776.6
177.5°	771.5	771.5	771.5	771.5	770.3	768.6	767.8	769.5	773.0	775.6	775.1
180°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	727.0	725.0	727.0	725.6	726.3	724.3	718.3	716.3	718.3	720.3	720.3
5°	735.7	734.4	735.7	735.7	735.0	733.7	727.0	725.6	727.0	727.7	726.3
7.5°	738.4	736.4	738.4	737.0	737.0	735.7	729.0	727.7	728.3	730.3	728.3
10°	738.4	736.4	738.4	737.7	737.0	735.7	729.0	726.3	726.3	728.3	726.3
12.5°	735.0	733.7	735.0	733.7	733.7	732.4	725.6	723.0	723.6	724.3	721.6
15°	729.7	727.7	729.7	728.3	729.0	727.0	719.6	716.9	716.9	718.3	713.6
17.5°	721.6	718.9	721.6	721.0	720.3	718.9	712.2	709.6	708.9	709.6	706.2
20°	712.2	710.2	712.2	711.6	711.6	708.9	702.2	698.8	698.8	698.8	695.5
22.5°	697.5	695.5	697.5	698.8	698.8	698.1	692.1	687.4	686.1	686.1	682.1
25°	680.7	678.7	680.7	680.7	680.0	680.7	678.7	676.0	674.0	672.0	668.0
27.5°	664.6	663.3	664.6	663.3	664.6	662.6	661.9	661.3	658.6	656.6	651.2
30°	648.5	647.2	648.5	647.2	645.8	644.5	641.1	639.8	642.5	641.1	632.4
32.5°	628.4	627.1	628.4	628.4	627.1	627.1	621.7	619.7	620.4	624.4	616.3
35°	607.6	605.6	607.6	606.9	607.6	605.6	602.2	601.6	598.9	603.6	597.6
37.5°	583.5	581.5	583.5	583.5	583.5	584.8	582.1	580.1	576.1	582.1	577.4
40°	558.7	556.0	558.7	558.0	558.7	560.0	558.7	557.3	553.3	558.0	554.0
42.5°	530.5	529.8	530.5	531.2	531.2	533.8	535.9	533.2	531.8	528.5	531.2
45°	500.3	499.0	500.3	501.6	502.3	503.7	509.7	509.7	507.7	502.3	506.3
47.5°	468.1	464.8	468.1	472.1	472.1	474.2	480.2	484.9	481.5	474.8	476.8
50°	433.9	434.6	433.9	436.6	436.6	444.0	448.7	453.4	456.7	448.7	439.3
52.5°	400.4	399.7	400.4	402.4	405.1	408.4	416.5	421.2	426.5	421.8	407.1
55°	366.8	368.2	366.8	367.5	368.9	370.9	382.9	387.6	397.7	391.7	376.2
57.5°	333.3	331.3	333.3	334.7	335.3	337.3	347.4	356.1	362.2	362.8	344.0
60°	294.4	291.7	294.4	300.5	301.8	303.1	312.5	320.6	325.9	327.9	308.5
62.5°	260.2	255.5	260.2	264.2	266.9	270.3	277.0	289.1	293.7	294.4	266.9
65°	224.0	222.0	224.0	232.0	232.7	236.7	244.1	252.8	262.9	261.6	222.0
67.5°	191.1	191.1	191.1	196.5	200.5	202.5	211.9	216.0	228.7	230.0	185.1
70°	161.0	160.3	161.0	165.0	167.7	172.4	181.1	185.8	195.8	199.2	150.2
72.5°	132.1	131.4	132.1	135.5	138.2	142.2	149.6	154.9	163.6	167.7	116.7
75°	106.6	105.3	106.6	109.3	108.6	114.0	120.0	125.4	133.5	136.1	86.5
77.5°	81.8	81.8	81.8	84.5	84.5	89.9	92.6	99.3	104.0	108.0	63.7
80°	61.0	60.4	61.0	61.7	61.7	64.4	69.1	73.8	77.8	77.8	43.6
82.5°	42.9	41.6	42.9	42.9	42.9	44.3	46.9	48.3	51.0	53.0	27.5
85°	26.8	26.8	26.8	27.5	26.8	28.2	28.8	30.2	30.2	28.8	16.8
87.5°	17.4	16.8	17.4	16.8	16.8	16.1	16.1	16.1	15.4	14.8	9.4
90°	19.7	19.7	19.7	19.7	19.7	26.2	34.9	39.3	33.8	22.8	14.5
92.5°	78.8	63.2	78.8	94.5	98.4	139.5	194.2	221.6	194.6	140.5	99.9
95°	274.7	227.3	274.7	322.1	334.0	438.6	578.0	647.7	547.0	345.7	194.7
97.5°	658.2	568.0	658.2	748.4	770.9	837.0	925.1	969.2	801.3	465.6	213.8
100°	948.3	840.8	948.3	1055.7	1082.6	1077.8	1071.3	1068.1	881.8	509.3	229.9
102.5°	1233.7	1141.7	1233.7	1325.8	1348.8	1264.6	1152.3	1096.1	907.2	529.3	245.9
105°	1597.6	1548.1	1597.6	1647.0	1659.4	1470.6	1218.9	1093.0	910.1	544.2	269.8
107.5°	1835.9	1847.9	1835.9	1823.9	1820.9	1557.6	1206.5	1030.9	869.6	547.0	305.0
110°	1926.8	1978.3	1926.8	1875.3	1862.4	1568.0	1175.4	979.1	833.7	542.8	324.6





TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1934.9	2014.1	1934.9	1855.8	1836.0	1534.7	1132.9	932.0	802.3	542.9	348.4
115°	1883.6	1993.4	1883.6	1773.8	1746.4	1456.1	1069.0	875.5	766.3	548.0	384.2
117.5°	1774.8	1896.5	1774.8	1653.0	1622.6	1360.6	1011.3	836.7	743.9	558.2	418.9
120°	1687.1	1805.4	1687.1	1568.9	1539.3	1299.9	980.8	821.2	736.3	566.5	439.1
122.5°	1601.7	1718.4	1601.7	1485.1	1455.9	1240.4	953.0	809.3	732.3	578.4	462.9
125°	1479.9	1587.4	1479.9	1372.5	1345.6	1162.5	918.4	796.3	729.0	594.4	493.4
127.5°	1370.4	1461.1	1370.4	1279.8	1257.1	1099.9	890.2	785.4	727.1	610.4	522.9
130°	1305.9	1389.7	1305.9	1222.1	1201.2	1061.2	874.6	781.3	728.3	622.2	542.6
132.5°	1247.3	1322.3	1247.3	1172.3	1153.6	1028.3	861.2	777.7	729.0	631.7	558.7
135°	1167.1	1231.7	1167.1	1102.5	1086.3	981.4	841.5	771.5	728.3	642.0	577.3
137.5°	1102.7	1155.6	1102.7	1049.7	1036.5	947.8	829.5	770.4	732.8	657.5	601.1
140°	1058.5	1108.0	1058.5	1009.1	996.7	920.1	817.9	766.8	733.6	667.1	617.2
142.5°	1021.9	1064.5	1021.9	979.3	968.7	901.4	811.7	766.8	736.2	675.0	629.1
145°	967.1	999.3	967.1	934.9	926.8	871.7	798.3	761.6	736.2	685.3	647.2
147.5°	924.9	951.6	924.9	898.3	891.6	848.3	790.5	761.6	741.2	700.5	670.0
150°	898.5	920.1	898.5	876.8	871.4	834.8	786.0	761.6	743.9	708.5	681.9
152.5°	875.7	892.1	875.7	859.4	855.3	824.1	782.4	761.6	745.6	713.7	689.7
155°	849.7	860.5	849.7	838.9	836.2	811.3	778.2	761.6	749.4	725.0	706.7
157.5°	829.1	836.7	829.1	821.5	819.6	800.3	774.5	761.6	753.2	736.4	723.8
160°	816.8	821.2	816.8	812.4	811.3	794.7	772.6	761.6	754.9	741.6	731.6
162.5°	808.8	812.9	808.8	804.6	803.6	789.6	770.9	761.6	756.8	747.1	739.9
165°	797.1	801.5	797.1	792.7	791.6	781.6	768.3	761.6	759.4	755.1	751.8
167.5°	788.8	790.6	788.8	787.0	786.5	779.9	771.2	766.8	765.0	761.3	758.5
170°	786.5	786.5	786.5	786.5	786.5	779.9	771.2	766.8	766.7	766.5	766.3
172.5°	780.3	778.7	780.3	781.9	782.3	777.1	770.2	766.8	766.8	766.8	766.8
175°	776.6	776.6	776.6	776.6	776.6	773.3	769.0	766.8	767.8	769.9	771.5
177.5°	773.3	771.5	773.3	775.1	775.6	773.0	769.5	767.8	768.6	770.3	771.5
180°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	718.9	714.9	714.9	708.2	705.5	703.5	700.2	690.1	687.4	684.7	688.8
5°	725.0	717.6	712.2	700.2	690.1	686.1	673.3	649.2	633.1	621.0	614.3
7.5°	726.3	716.9	706.9	688.1	663.9	653.2	614.3	570.1	558.0	547.3	540.5
10°	725.0	714.2	700.2	672.0	615.0	596.2	557.3	528.5	521.1	519.1	521.1
12.5°	720.3	710.2	690.8	643.8	564.0	551.3	528.5	511.7	510.4	513.7	531.8
15°	712.2	702.8	680.0	606.3	535.9	526.5	510.4	504.3	511.7	535.2	589.5
17.5°	704.2	693.5	665.3	569.4	514.4	507.7	496.3	508.4	549.9	581.5	599.6
20°	693.5	680.7	648.5	542.6	499.0	492.9	487.6	541.9	573.4	584.8	594.9
22.5°	680.7	667.3	625.7	523.8	482.9	478.2	481.5	560.7	573.4	581.5	590.2
25°	663.9	652.5	598.9	509.0	470.1	464.8	477.5	558.7	566.0	568.0	585.5
27.5°	648.5	633.8	570.7	495.6	454.7	452.7	480.9	549.9	555.3	557.3	576.1
30°	629.7	607.6	539.2	481.5	438.6	437.9	481.5	539.2	537.9	543.2	562.0
32.5°	610.3	568.7	503.7	464.1	423.2	422.5	476.8	523.1	521.8	529.1	543.2
35°	592.2	538.5	455.4	444.0	403.7	404.4	465.4	504.3	505.0	511.7	520.4
37.5°	573.4	512.4	402.4	421.8	385.0	385.0	450.0	486.9	485.6	487.6	499.6
40°	551.3	471.5	355.4	393.0	367.5	365.5	431.2	468.1	463.4	462.8	479.5
42.5°	527.8	426.5	320.6	354.8	347.4	344.7	408.4	445.3	436.6	438.6	460.1
45°	502.3	414.5	293.7	299.8	326.6	324.6	383.6	419.2	413.1	418.5	440.6
47.5°	476.8	390.3	285.0	248.8	304.5	303.8	356.1	393.7	390.3	395.7	419.2
50°	442.0	363.5	284.4	213.3	279.7	282.3	323.3	368.9	368.9	373.6	398.4
52.5°	397.0	330.6	258.2	193.1	250.8	258.9	294.4	347.4	348.7	353.4	375.6
55°	356.1	296.4	239.4	177.7	216.6	234.1	266.2	325.3	327.9	332.6	352.8
57.5°	318.6	246.8	235.4	159.6	185.1	201.9	241.4	303.8	305.1	309.2	328.6
60°	278.3	178.4	216.0	140.2	157.6	170.3	218.6	278.3	283.0	285.7	302.5
62.5°	232.7	129.4	195.8	126.8	144.2	146.9	199.9	254.2	260.2	262.2	272.3
65°	165.7	108.6	166.3	115.4	130.1	130.8	179.7	229.4	234.7	238.1	245.5
67.5°	112.0	88.5	126.8	104.6	119.4	120.0	160.3	200.5	207.9	210.6	215.3
70°	77.8	59.0	93.9	93.2	107.3	108.6	139.5	174.4	181.1	183.1	185.8
72.5°	57.0	47.6	77.8	83.8	94.6	95.9	118.0	144.9	151.6	153.6	154.9
75°	43.6	50.3	63.0	73.1	80.5	81.1	96.6	118.0	122.7	124.1	124.7
77.5°	34.9	46.9	46.3	59.0	65.7	64.4	75.8	91.2	95.2	95.2	95.2
80°	26.2	36.9	34.9	42.3	48.3	46.9	54.3	65.1	66.4	67.7	67.1
82.5°	19.4	23.5	23.5	26.8	32.2	30.9	36.2	42.3	42.3	42.3	43.6
85°	12.1	13.4	10.7	14.1	18.1	17.4	20.1	22.8	23.5	23.5	22.1
87.5°	7.4	6.0	3.4	5.4	8.0	8.0	9.4	10.1	9.4	9.4	9.4
90°	13.5	9.3	5.2	9.3	13.5	14.5	22.8	33.8	39.3	34.9	26.2
92.5°	91.1	55.9	20.7	55.9	91.1	99.9	140.5	194.6	221.6	194.2	139.5
95°	178.6	114.1	49.7	114.1	178.6	194.7	345.7	547.0	647.7	578.0	438.6
97.5°	199.6	142.7	85.9	142.7	199.6	213.8	465.6	801.3	969.2	925.1	837.0
100°	217.0	165.5	113.9	165.5	217.0	229.9	509.3	881.8	1068.1	1071.3	1077.8
102.5°	233.9	185.8	137.7	185.8	233.9	245.9	529.3	907.2	1096.1	1152.3	1264.6
105°	259.6	218.9	178.1	218.9	259.6	269.8	544.2	910.1	1093.0	1218.9	1470.6
107.5°	295.5	257.5	219.5	257.5	295.5	305.0	547.0	869.6	1030.9	1206.5	1557.6
110°	316.0	281.8	247.5	281.8	316.0	324.6	542.8	833.7	979.1	1175.4	1568.0



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	340.2	307.6	274.9	307.6	340.2	348.4	542.9	802.3	932.0	1132.9	1534.7
115°	376.7	346.5	316.3	346.5	376.7	384.2	548.0	766.3	875.5	1069.0	1456.1
117.5°	412.1	384.7	357.3	384.7	412.1	418.9	558.2	743.9	836.7	1011.3	1360.6
120°	432.7	406.9	381.1	406.9	432.7	439.1	566.5	736.3	821.2	980.8	1299.9
122.5°	456.4	430.4	404.4	430.4	456.4	462.9	578.4	732.3	809.3	953.0	1240.4
125°	487.5	463.8	440.1	463.8	487.5	493.4	594.4	729.0	796.3	918.4	1162.5
127.5°	516.9	493.0	469.1	493.0	516.9	522.9	610.4	727.1	785.4	890.2	1099.9
130°	536.2	510.4	484.6	510.4	536.2	542.6	622.2	728.3	781.3	874.6	1061.2
132.5°	552.3	526.5	500.7	526.5	552.3	558.7	631.7	729.0	777.7	861.2	1028.3
135°	571.4	548.0	524.5	548.0	571.4	577.3	642.0	728.3	771.5	841.5	981.4
137.5°	595.3	572.0	548.8	572.0	595.3	601.1	657.5	732.8	770.4	829.5	947.8
140°	611.8	590.4	569.0	590.4	611.8	617.2	667.1	733.6	766.8	817.9	920.1
142.5°	624.1	604.3	584.5	604.3	624.1	629.1	675.0	736.2	766.8	811.7	901.4
145°	642.9	625.6	608.4	625.6	642.9	647.2	685.3	736.2	761.6	798.3	871.7
147.5°	665.8	649.0	632.2	649.0	665.8	670.0	700.5	741.2	761.6	790.5	848.3
150°	678.1	662.9	647.7	662.9	678.1	681.9	708.5	743.9	761.6	786.0	834.8
152.5°	686.8	675.3	663.8	675.3	686.8	689.7	713.7	745.6	761.6	782.4	824.1
155°	704.6	696.1	687.6	696.1	704.6	706.7	725.0	749.4	761.6	778.2	811.3
157.5°	721.7	713.5	705.2	713.5	721.7	723.8	736.4	753.2	761.6	774.5	800.3
160°	730.0	723.5	717.1	723.5	730.0	731.6	741.6	754.9	761.6	772.6	794.7
162.5°	738.7	733.8	729.0	733.8	738.7	739.9	747.1	756.8	761.6	770.9	789.6
165°	750.7	746.3	741.9	746.3	750.7	751.8	755.1	759.4	761.6	768.3	781.6
167.5°	758.0	755.9	753.9	755.9	758.0	758.5	761.3	765.0	766.8	771.2	779.9
170°	765.8	763.7	761.6	763.7	765.8	766.3	766.5	766.7	766.8	771.2	779.9
172.5°	766.7	766.2	765.8	766.2	766.7	766.8	766.8	766.8	766.8	770.2	777.1
175°	771.5	771.5	771.5	771.5	771.5	771.5	769.9	767.8	766.8	769.0	773.3
177.5°	771.5	771.5	771.5	771.5	771.5	771.5	770.3	768.6	767.8	769.5	773.0
180°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	684.1	682.1	684.7	677.4	684.7	682.1	684.1	688.8	684.7	687.4	690.1
5°	600.2	596.9	586.2	577.4	586.2	596.9	600.2	614.3	621.0	633.1	649.2
7.5°	536.5	533.8	531.2	525.8	531.2	533.8	536.5	540.5	547.3	558.0	570.1
10°	522.4	523.1	527.1	526.5	527.1	523.1	522.4	521.1	519.1	521.1	528.5
12.5°	558.7	564.7	586.8	585.5	586.8	564.7	558.7	531.8	513.7	510.4	511.7
15°	600.2	602.2	606.9	607.6	606.9	602.2	600.2	589.5	535.2	511.7	504.3
17.5°	604.3	604.9	608.3	608.3	608.3	604.9	604.3	599.6	581.5	549.9	508.4
20°	600.9	602.2	609.0	610.3	609.0	602.2	600.9	594.9	584.8	573.4	541.9
22.5°	599.6	602.2	607.6	606.9	607.6	602.2	599.6	590.2	581.5	573.4	560.7
25°	592.9	592.9	593.5	594.2	593.5	592.9	592.9	585.5	568.0	566.0	558.7
27.5°	578.8	580.1	584.1	583.5	584.1	580.1	578.8	576.1	557.3	555.3	549.9
30°	566.0	564.7	561.3	558.7	561.3	564.7	566.0	562.0	543.2	537.9	539.2
32.5°	544.6	541.2	537.9	535.9	537.9	541.2	544.6	543.2	529.1	521.8	523.1
35°	519.1	519.8	519.1	517.1	519.1	519.8	519.1	520.4	511.7	505.0	504.3
37.5°	501.0	502.3	501.6	499.0	501.6	502.3	501.0	499.6	487.6	485.6	486.9
40°	482.2	482.9	482.2	480.2	482.2	482.9	482.2	479.5	462.8	463.4	468.1
42.5°	464.1	463.4	461.4	460.1	461.4	463.4	464.1	460.1	438.6	436.6	445.3
45°	443.3	444.0	439.9	437.9	439.9	444.0	443.3	440.6	418.5	413.1	419.2
47.5°	422.5	422.5	419.2	417.1	419.2	422.5	422.5	419.2	395.7	390.3	393.7
50°	400.4	399.7	395.0	394.3	395.0	399.7	400.4	398.4	373.6	368.9	368.9
52.5°	374.9	374.9	375.6	376.9	375.6	374.9	374.9	375.6	353.4	348.7	347.4
55°	352.8	353.4	358.1	359.5	358.1	353.4	352.8	352.8	332.6	327.9	325.3
57.5°	330.0	330.0	333.3	333.3	333.3	330.0	330.0	328.6	309.2	305.1	303.8
60°	303.8	305.1	307.8	307.2	307.8	305.1	303.8	302.5	285.7	283.0	278.3
62.5°	276.3	277.7	278.3	277.0	278.3	277.7	276.3	272.3	262.2	260.2	254.2
65°	247.5	248.8	249.5	248.1	249.5	248.8	247.5	245.5	238.1	234.7	229.4
67.5°	218.0	217.3	216.6	219.3	216.6	217.3	218.0	215.3	210.6	207.9	200.5
70°	187.8	187.8	187.1	188.5	187.1	187.8	187.8	185.8	183.1	181.1	174.4
72.5°	155.6	154.9	157.6	155.6	157.6	154.9	155.6	154.9	153.6	151.6	144.9
75°	124.1	125.4	124.1	126.1	124.1	125.4	124.1	124.7	124.1	122.7	118.0
77.5°	94.6	95.9	94.6	94.6	94.6	95.9	94.6	95.2	95.2	95.2	91.2
80°	67.1	66.4	66.4	65.7	66.4	66.4	67.1	67.1	67.7	66.4	65.1
82.5°	42.9	42.3	42.3	43.6	42.3	42.3	42.9	43.6	42.3	42.3	42.3
85°	23.5	24.1	22.8	22.8	22.8	24.1	23.5	22.1	23.5	23.5	22.8
87.5°	8.7	8.0	8.0	8.0	8.0	8.0	8.7	9.4	9.4	9.4	10.1
90°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	26.2	34.9	39.3	33.8
92.5°	98.4	94.5	78.8	63.2	78.8	94.5	98.4	139.5	194.2	221.6	194.6
95°	334.0	322.1	274.7	227.3	274.7	322.1	334.0	438.6	578.0	647.7	547.0
97.5°	770.9	748.4	658.2	568.0	658.2	748.4	770.9	837.0	925.1	969.2	801.3
100°	1082.6	1055.7	948.3	840.8	948.3	1055.7	1082.6	1077.8	1071.3	1068.1	881.8
102.5°	1348.8	1325.8	1233.7	1141.7	1233.7	1325.8	1348.8	1264.6	1152.3	1096.1	907.2
105°	1659.4	1647.0	1597.6	1548.1	1597.6	1647.0	1659.4	1470.6	1218.9	1093.0	910.1
107.5°	1820.9	1823.9	1835.9	1847.9	1835.9	1823.9	1820.9	1557.6	1206.5	1030.9	869.6
110°	1862.4	1875.3	1926.8	1978.3	1926.8	1875.3	1862.4	1568.0	1175.4	979.1	833.7



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1836.0	1855.8	1934.9	2014.1	1934.9	1855.8	1836.0	1534.7	1132.9	932.0	802.3
115°	1746.4	1773.8	1883.6	1993.4	1883.6	1773.8	1746.4	1456.1	1069.0	875.5	766.3
117.5°	1622.6	1653.0	1774.8	1896.5	1774.8	1653.0	1622.6	1360.6	1011.3	836.7	743.9
120°	1539.3	1568.9	1687.1	1805.4	1687.1	1568.9	1539.3	1299.9	980.8	821.2	736.3
122.5°	1455.9	1485.1	1601.7	1718.4	1601.7	1485.1	1455.9	1240.4	953.0	809.3	732.3
125°	1345.6	1372.5	1479.9	1587.4	1479.9	1372.5	1345.6	1162.5	918.4	796.3	729.0
127.5°	1257.1	1279.8	1370.4	1461.1	1370.4	1279.8	1257.1	1099.9	890.2	785.4	727.1
130°	1201.2	1222.1	1305.9	1389.7	1305.9	1222.1	1201.2	1061.2	874.6	781.3	728.3
132.5°	1153.6	1172.3	1247.3	1322.3	1247.3	1172.3	1153.6	1028.3	861.2	777.7	729.0
135°	1086.3	1102.5	1167.1	1231.7	1167.1	1102.5	1086.3	981.4	841.5	771.5	728.3
137.5°	1036.5	1049.7	1102.7	1155.6	1102.7	1049.7	1036.5	947.8	829.5	770.4	732.8
140°	996.7	1009.1	1058.5	1108.0	1058.5	1009.1	996.7	920.1	817.9	766.8	733.6
142.5°	968.7	979.3	1021.9	1064.5	1021.9	979.3	968.7	901.4	811.7	766.8	736.2
145°	926.8	934.9	967.1	999.3	967.1	934.9	926.8	871.7	798.3	761.6	736.2
147.5°	891.6	898.3	924.9	951.6	924.9	898.3	891.6	848.3	790.5	761.6	741.2
150°	871.4	876.8	898.5	920.1	898.5	876.8	871.4	834.8	786.0	761.6	743.9
152.5°	855.3	859.4	875.7	892.1	875.7	859.4	855.3	824.1	782.4	761.6	745.6
155°	836.2	838.9	849.7	860.5	849.7	838.9	836.2	811.3	778.2	761.6	749.4
157.5°	819.6	821.5	829.1	836.7	829.1	821.5	819.6	800.3	774.5	761.6	753.2
160°	811.3	812.4	816.8	821.2	816.8	812.4	811.3	794.7	772.6	761.6	754.9
162.5°	803.6	804.6	808.8	812.9	808.8	804.6	803.6	789.6	770.9	761.6	756.8
165°	791.6	792.7	797.1	801.5	797.1	792.7	791.6	781.6	768.3	761.6	759.4
167.5°	786.5	787.0	788.8	790.6	788.8	787.0	786.5	779.9	771.2	766.8	765.0
170°	786.5	786.5	786.5	786.5	786.5	786.5	786.5	779.9	771.2	766.8	766.7
172.5°	782.3	781.9	780.3	778.7	780.3	781.9	782.3	777.1	770.2	766.8	766.8
175°	776.6	776.6	776.6	776.6	776.6	776.6	776.6	773.3	769.0	766.8	767.8
177.5°	775.6	775.1	773.3	771.5	773.3	775.1	775.6	773.0	769.5	767.8	768.6
180°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	708.9	708.9	708.9	708.9	708.9
2.5°	700.2	703.5	705.5	708.2	714.9
5°	673.3	686.1	690.1	700.2	712.2
7.5°	614.3	653.2	663.9	688.1	706.9
10°	557.3	596.2	615.0	672.0	700.2
12.5°	528.5	551.3	564.0	643.8	690.8
15°	510.4	526.5	535.9	606.3	680.0
17.5°	496.3	507.7	514.4	569.4	665.3
20°	487.6	492.9	499.0	542.6	648.5
22.5°	481.5	478.2	482.9	523.8	625.7
25°	477.5	464.8	470.1	509.0	598.9
27.5°	480.9	452.7	454.7	495.6	570.7
30°	481.5	437.9	438.6	481.5	539.2
32.5°	476.8	422.5	423.2	464.1	503.7
35°	465.4	404.4	403.7	444.0	455.4
37.5°	450.0	385.0	385.0	421.8	402.4
40°	431.2	365.5	367.5	393.0	355.4
42.5°	408.4	344.7	347.4	354.8	320.6
45°	383.6	324.6	326.6	299.8	293.7
47.5°	356.1	303.8	304.5	248.8	285.0
50°	323.3	282.3	279.7	213.3	284.4
52.5°	294.4	258.9	250.8	193.1	258.2
55°	266.2	234.1	216.6	177.7	239.4
57.5°	241.4	201.9	185.1	159.6	235.4
60°	218.6	170.3	157.6	140.2	216.0
62.5°	199.9	146.9	144.2	126.8	195.8
65°	179.7	130.8	130.1	115.4	166.3
67.5°	160.3	120.0	119.4	104.6	126.8
70°	139.5	108.6	107.3	93.2	93.9
72.5°	118.0	95.9	94.6	83.8	77.8
75°	96.6	81.1	80.5	73.1	63.0
77.5°	75.8	64.4	65.7	59.0	46.3
80°	54.3	46.9	48.3	42.3	34.9
82.5°	36.2	30.9	32.2	26.8	23.5
85°	20.1	17.4	18.1	14.1	10.7
87.5°	9.4	8.0	8.0	5.4	3.4
90°	22.8	14.5	13.5	9.3	5.2
92.5°	140.5	99.9	91.1	55.9	20.7
95°	345.7	194.7	178.6	114.1	49.7
97.5°	465.6	213.8	199.6	142.7	85.9
100°	509.3	229.9	217.0	165.5	113.9
102.5°	529.3	245.9	233.9	185.8	137.7
105°	544.2	269.8	259.6	218.9	178.1
107.5°	547.0	305.0	295.5	257.5	219.5
110°	542.8	324.6	316.0	281.8	247.5



TEST NUMBER: P935414

CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	542.9	348.4	340.2	307.6	274.9
115°	548.0	384.2	376.7	346.5	316.3
117.5°	558.2	418.9	412.1	384.7	357.3
120°	566.5	439.1	432.7	406.9	381.1
122.5°	578.4	462.9	456.4	430.4	404.4
125°	594.4	493.4	487.5	463.8	440.1
127.5°	610.4	522.9	516.9	493.0	469.1
130°	622.2	542.6	536.2	510.4	484.6
132.5°	631.7	558.7	552.3	526.5	500.7
135°	642.0	577.3	571.4	548.0	524.5
137.5°	657.5	601.1	595.3	572.0	548.8
140°	667.1	617.2	611.8	590.4	569.0
142.5°	675.0	629.1	624.1	604.3	584.5
145°	685.3	647.2	642.9	625.6	608.4
147.5°	700.5	670.0	665.8	649.0	632.2
150°	708.5	681.9	678.1	662.9	647.7
152.5°	713.7	689.7	686.8	675.3	663.8
155°	725.0	706.7	704.6	696.1	687.6
157.5°	736.4	723.8	721.7	713.5	705.2
160°	741.6	731.6	730.0	723.5	717.1
162.5°	747.1	739.9	738.7	733.8	729.0
165°	755.1	751.8	750.7	746.3	741.9
167.5°	761.3	758.5	758.0	755.9	753.9
170°	766.5	766.3	765.8	763.7	761.6
172.5°	766.8	766.8	766.7	766.2	765.8
175°	769.9	771.5	771.5	771.5	771.5
177.5°	770.3	771.5	771.5	771.5	771.5
180°	771.5	771.5	771.5	771.5	771.5



TEST NUMBER: P935414  
 CATALOG NUMBER: SQ4-FA-125U-050D-835-1D-UNV-STD-W-4

**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	8.68	9.37	9.82	10.49	12.06	11.48	12.17	12.61	13.29	14.86
	3H	9.15	9.76	10.29	10.89	12.48	12.80	13.42	13.94	14.55	16.13
	4H	9.33	9.91	10.48	11.05	12.63	13.23	13.81	14.38	14.95	16.54
	6H	9.44	9.98	10.60	11.11	12.71	13.50	14.04	14.66	15.17	16.77
	8H	9.44	9.95	10.60	11.10	12.69	13.56	14.07	14.73	15.23	16.82
	12H	9.40	9.88	10.57	11.03	12.64	13.59	14.08	14.76	15.22	16.84
4H	2H	9.69	10.27	10.84	11.40	12.99	11.87	12.45	13.03	13.59	15.17
	3H	10.70	11.18	11.86	12.34	13.94	13.35	13.84	14.51	14.99	16.59
	4H	10.96	11.41	12.13	12.56	14.18	13.86	14.31	15.03	15.46	17.08
	6H	11.08	11.46	12.25	12.63	14.24	14.21	14.59	15.38	15.76	17.37
	8H	11.08	11.44	12.25	12.60	14.23	14.31	14.66	15.48	15.83	17.45
	12H	11.04	11.36	12.23	12.54	14.17	14.35	14.67	15.54	15.85	17.48
8H	4H	11.40	11.76	12.57	12.92	14.54	13.97	14.33	15.14	15.49	17.12
	6H	11.65	11.95	12.84	13.15	14.77	14.39	14.69	15.58	15.89	17.52
	8H	11.69	11.95	12.89	13.13	14.78	14.54	14.80	15.73	15.98	17.62
	12H	11.67	11.90	12.87	13.07	14.75	14.62	14.85	15.82	16.03	17.70
12H	4H	11.40	11.72	12.58	12.89	14.52	13.93	14.25	15.12	15.43	17.06
	6H	11.71	11.97	12.91	13.15	14.79	14.39	14.65	15.59	15.83	17.47
	8H	11.77	11.99	12.97	13.17	14.85	14.54	14.76	15.74	15.94	17.62